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NISTIR 5103

(Supersedes NISTIR 4951)

Validated Products List 1993 No. 1

Programming Languages
Database Language SQL
Graphics
GOSIP
POSIX
Computer Security

Judy B. Kailey Editor

U.S. DEPARTMENT OF COMMERCE Technology Administration National Institute of Standards and Technology Computer Systems Laboratory Software Standards Validation Group Gaithersburg, MD 20899

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TECHNOLOGY ADMINISTRATION
Robert M. White, Under Secretary for Technology

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY John W. Lyons, Director



FOREWORD

The Validated Products List is a collection of registers describing implementations of Federal Information Processing Standards (FIPS) that have been validated for conformance to FIPS. The Validated Products List also contains information about the organizations, test methods and procedures that support the validation programs for the FIPS identified in this document.

The Validated Products List is updated quarterly.

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1. INTRODUCTION

1.1 Purpose

The testing of Information Technology (IT) Products to determine the degree to which they conform to specific Federal Information Processing Standards (FIPS) may be required by Government agencies as specified by the FIPS, Federal Information Resources Management Regulation (FIRMR) Parts 201-20.303, 201-20.304, and 201-39.1002, and the associated Federal ADP and Telecommunications Standards Index. Products having a current validation certificate or test report may be offered or delivered by vendors in response to requirements as set forth in solicitations by Federal agencies. The Validated Products List (VPL) contains conformance testing information for the following IT Standards:

Programming Languages COBOL, Fortran, Ada, Pascal, C, and MUMPS Database Language SQL Graphics
GOSIP
POSIX
Computer Security

This List is updated and published quarterly. The information contained herein is supplied by the contributors listed in Section 2.6 and Appendix A, and is current as of the tenth of the month preceding the publication date. Copies of the VPL may be obtained from:

National Technical Information Service U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22151.

Subscriptions:

(703) 487-4630

Individual Copies:

(703) 487-4650

Ordering Number: PB92-937300

The entries in the printed VPL are contained in WordPerfect Version 5.1 files and may be accessed on the Internet using the instructions listed below.

Type: ftp speckle.ncsl.nist.gov (internet address is 129.6.59.2)

Login as user ftp

Type your e-mail address as the password

Type: cd pub/vpl

Questions or comments concerning the VPL should be directed to:

National Institute of Standards and Technology (NIST) Computer Systems Laboratory Software Standards Validation Group Building 225, Room A266 Gaithersburg, MD 20899 Telephone (301) 975-3274

1.2 Document Organization

1.2.1 Programming Languages

Section 2 identifies those COBOL, Fortran, Pascal, C, and Ada programming language processors that have a current validation certificate referencing the applicable FIPS as of the date of this publication.

1.2.2 Database Language SQL

Section 3 identifies those SQL language processors that have a registered test report for FIPS PUB 127-1 as of the date of this publication.

1.2.3 Graphics

Section 4 lists those Graphical Kernel System (GKS) implementations and Computer Graphics Metafiles (CGMs) that have a current validation certificate for FIPS PUB 120-1 or FIPS PUB 128, respectively.

1.2.4 GOSIP

Section 5 contains information regarding FIPS PUB 146-1, GOSIP, conformance testing registers.

1.2.5 POSIX

Section 6 identifies POSIX products that have a current validation certificate for FIPS PUB 151-1.

1.2.6 Computer Security

Section 7 contains information regarding validated products for FIPS PUB 46-1, DES, and FIPS PUB 113, MAC, ANSI X9.17.

1.2.7 FIPS Conformance Testing Products

Appendix A lists FIPS conformance testing products and services available to the public. Information for these products and services may be obtained by contacting the appropriate person listed.

2. PROGRAMMING LANGUAGES

2.1 FIPS Programming Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies when acquiring language processors, are responsible for assuring that processors are in accordance with the following FIPS for programming languages:

- a. COBOL processors must satisfy the provisions of FIPS PUB 21-3, COBOL, and must be identified as implementing all of the language elements of at least one of the subsets of FIPS COBOL as specified in FIPS PUB 21-3.
- b. BASIC processors must satisfy the provisions of FIPS PUB 68-2, BASIC.
- c. Fortran processors must satisfy the provision of FIPS PUB 69-1, Fortran, and must be identified as implementing all of the language elements of the subset or full levels of FIPS Fortran as specified in FIPS PUB 69-1.
- d. Pascal processors must satisfy the provisions of FIPS PUB 109, Pascal.
- e. Ada processors must satisfy the provisions of FIPS PUB 119, Ada.
- f. MUMPS processors must satisfy the provisions of FIPS PUB 125, MUMPS.
- g. C processors must satisfy the provisions of FIPS PUB 160, C.
- h. VHDL processors must satisfy the provisions of FIPS PUB 172, VHDL.

Copies of the above publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Conformance testing programs are currently available for all above FIPS except for the programming language BASIC and VHDL. A test suite for BASIC is being developed.

2.2 Organization of Programming Language Processor Entries

The entries in the VPL for programming language processors are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the processor.
- The PROCESSOR ID column contains the Processor identification and the Validation Summary Report (VSR) or certificate number. This number refers to the VSR that was produced as a result of the testing. The VSR describes the testing environment and details any processor nonconformity that was detected as a result of the testing. Information for obtaining a VSR is listed in section 2.6.
- Derived processors in the VENDOR & COMPILER column are Ada processors that have been derived from the processor/hardware/operating system environment used during the testing. In order for derived processors to be listed here, they must be properly registered with the Department of Defense, Ada Joint Program Office (AJPO) by the vendor of the processor.

- The HARDWARE & OPERATING SYSTEM column presents the hardware and operating system environment (including pertinent supporting system software) used during the validation. In the case of Ada processors, those environments for derived processors will appear in this column.
- The EXPIRY DATE column lists the expiration date of the Certificate of Validation. A
 processor may be included in the List after the certificate has expired if the validation is in
 process. Notification must be received by NIST at least 30 days prior to publication of the List
 in order for such a processor to be included. In this case the expiration date will be followed
 by "(pending)".
- For COBOL processors, the SUBSET column cites the applicable Federal Subset. For Fortran processors, the LEVEL column specifies the applicable Federal level. For Pascal processors, the ISO 7185 Pascal Standard Level (ISO 7185 Level 0 is equivalent to FIPS 109). This designation is presented in the PROCESSOR ID column.
- The entries in the OTHER ENVIR column are other hardware and operating system environments in which the processor operates. The vendor of the processor has certified that the identified processor, when operating under the environments included in this column, produces the same test results as those obtained from the hardware and operating system environment used during the validation. Test results and other information from these environments may be required as evidence for entries to be included in this column.
- The word "Yes" in the NONCONFORMITIES column indicates that the processor did not conform to the applicable FIPS in one or more cases as evidenced by the validation. The Validation Procedures allow for certain processors to be validated with nonconformities, with the stipulation that the nonconformities are corrected and the processor is revalidated within one year. The VSR should be reviewed for details of the nonconformities.

2.3 Validation of Processors

2.3.1 Validation Requirements

In accordance with the requirements referenced in Section 1.1, language processors offered to the Government for purchase, lease, or use in connection with ADP services shall be validated for conformance to FIPS for programming languages. To confirm that the specifications of the designated FIPS have been met:

- a. the processor shall be tested with the Compiler Validation System (CVS) approved by NIST,
- b. the processor validations shall be conducted in accordance with NIST validation procedures,
- c. a Validation Summary Report (VSR) shall be produced summarizing the test results of the CVS on the designated processor for that FIPS,
- d. all nonconformities noted in the VSR shall be corrected within twelve months,
- e. a Certificate of Validation shall be issued if validation results warrant. In order for an Ada processor to receive a Certificate of Validation the processor must successfully pass all applicable tests of the Ada Compiler Validation Capability (ACVC) without exception.

The Federal ADP and Telecommunications Standards Index supplies standard terminology which may allow for delayed validation. When delayed validation is allowed, the offeror may meet this requirement by showing evidence of having submitted the processor for validation. Proof of submission is in the form of a letter from NIST scheduling the validation.

Programming language processors offered to the Federal Government must comply with the applicable Government requirements. Failure to comply with these requirements shall be deemed sufficient cause to declare a bidder non-responsive or to declare a vendor in default for failure to deliver required software.

2.3.2 Placement in the List

For a processor to be placed in the List it must:

- a. have been officially validated within the past twelve calendar months, and
- b. have no errors remaining that were identified during a previous test.

2.3.3 Removal from the List

A processor is removed from the List when:

- a. the processor is not officially tested within twelve calendar months, or
- b. testing indicates that the processor still contains errors identified during a previous validation.

2.3.4 Validation Procedures

Validation procedures are published in the following documents:

Compiler Validation Procedures, dated February 1, 1990 Ada Compiler Validation Procedures and Guidelines, Version 2.1, August, 1990 Pascal Validation Policy and Procedures, Version 5.3, February 20, 1991 MUMPS Validation Procedures, Version 1.0, dated August 13, 1992

2.4 Certificate of Validation

A Certificate of Validation is issued for those programming language processors that have been tested and are considered to be in compliance with the FIPS as specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Index.

The requirement for retesting may be waived and the certificate of validation extended at the option of NIST if:

- a. no errors were identified during the previous testing of the processor,
- b. the vendor certifies, in writing, to NIST that no changes have been made to either the processor or the supporting system software, and
- c. no new version of the validation system has been officially released during the interim period.

2.5 Language Processor Validation Suites

Following are the validation suites and ordering information for testing programming language processors for conformance to FIPS.

a. Copies of the COBOL, Fortran, MUMPS, and Ada Compiler Validation Suites may be purchased from:

National Technical Information Service (NTIS) 5285 Port Royal Road Springfield, VA 22161 Telephone (703) 487-4650 (Voice) (703) 321-8547 (FAX)

COMPILER VALIDATION SYSTEM [MEDIUM/FORMAT]	VERSION	NTIS ACCESSION NUMBER
COBOL 85 (CCVS85)	3.1	PB91-508002
Fortran (FCVS78)	2.0	PB85-226736
Ada [Tape/Backup]	1.11	ADA212551
Ada [Tape/Tar]	1.11	ADA212437
Ada [Tape ANSI Standard]	1.11	ADA212548
Ada [Disk (MS/DOS)]	1.11	ADA212549
MUMPS [Tape/Backup]	7.61	PB91-507699
MUMPS [Tape/ANSI]	7.61	PB91-507715
MUMPS [Tape/Tar]	7.61	PB91-507723
MUMPS [Disk (MS-DOS)]	7.61	PB91-507707

b. The current version of the Pascal Validation System (PVS) is Version 5.4 and is available from:

British Standards Institution (BSI)
Software Engineering Department
BSI Quality Assurance
P. O. Box 375
Milton Keynes
MK14 6LL
ENGLAND
Telephone (011) +44-908-220908 (Voice)
(011) +44-908-220671 (FAX)

c. The current version of the ANSI C Validation Suite (ACVStm) is Version 3.0 and is available from:

Perennial, Inc. 4699 Old Ironsides Drive Suite 210 Santa Clara, CA 95054 Telephone (408) 748-2900 (Voice)

2.6 Testing Laboratories and Supporting Organizations

The organizations listed below have performed validations, supplied information, or are sources for Validation Summary Reports (VSR) for programming languages. These organizations may be contacted for validation information and for copies of VSR(s). COBOL and Fortran VSR(s) may be obtained from NIST. Pascal VSR(s) whose VSR numbers begin with "NIST" or end in "US" may also be obtained from NIST. Pascal VSR(s) whose VSR numbers end in "UK" are available from BSI. Ada VSR(s) may be obtained from the Ada Information Clearinghouse, the National Technical Information Service, or from the Ada Validation Facility (AVF) that produced the VSR. To obtain a copy of a VSR from an AVF, locate the upper case letter in the certificate number (e.g., $870608\underline{W}1...$). That letter corresponds to the letter in the CODE column to the left of the organizations listed below.

CODI	<u>ORGANIZATION</u>	CONTACTS	LANGUAGE
S	National Institute of Standards and Technology Software Standards Validation Group Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3274 Telex: 197674 NBS UT Telecopier: (301) 590-0932	L. Arnold Johnson Judy Kailey Woody Schneider Kathryn Miles William Dashiell Carmelo Montanez	All COBOL, Fortran BASIC, C Pascal, C Ada, MUMPS, SQL Ada, MUMPS, C
N	National Computing Centre Limited (NCC) Oxford Road Manchester M1 7ED ENGLAND (011) +44 (61) 228 6333 +44 (61) 236 4715 (FAX) Telex 668962	Jane Pink Jon Leigh David Bamber	COBOL Fortran Ada
	German National Research Center for Computer Science (GMD) Department Scientific Visualization Supercomputer Center (HLRZ) P. O. 1316, Schloss Birlinghoven D-W-5205 Sankt Augustin 1 Germany (011) +49-2241-14-2706 (voice) (011) +49-2241-14-2618 (FAX) kirsch @gmdzi.gmd.de	Berthold Kirsch	Fortran
	Bureau Inter Administration de Documentation Informatique (BIADI) 21 Rue Bara 92132 Issy France	E. Bialot	COBOL Fortran
	Instituto Italiano del Marchio di Qualita (IMQ) Via Quintiliano, 43 20138 Milano Italy +39-2-5073266	Angelo Belloni	COBOL Fortran

JMI Institute Y. Fukui COBOL 21-25, Kinuta 1-Chome Fortran Setagaya-Ku, Tokyo 157 Japan +81 3 3416 9600 British Standards Institution (BSI) John Souter Pascal P.O. Box 375 Milton Keynes MK14 6LL **ENGLAND** (011) + 44 0908 - 220908Telex: 827682 BSIQAS G W Ada Validation Facility **Bobby Evans** Ada Language Control Facility ASD/SCEL Wright-Patterson AFB, OH 45433-6503 (513) 255-4472 **BNI-AVF** M. Alphonse Philippe Ada AFNOR or Direction Certification Tour Europe, Cedex 7 92080 Paris La Defense **FRANCE** (011) 33-142915960 Telefac: (011) 33-142915656 Telex: AFNOR 611 974 F **IABG-AVF** Michael Tonndorf Ada Industrieanlagen-Betriebsgesellschaft Dept. ITE Einsteinstrasse 20 D-8012 Ottobrunn Federal Republic of Germany +49-89-6088-2477 e-mail: tonndorf@ajpo.sei.cmu.edu Ada Information Clearinghouse Ada VSR(s) 3D139 1211 S. Fern, C-107 The Pentagon Washington, D.C. 20301-3081 (703) 685-1477 National Technical Information Service Ada VSR(s) U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22161

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(703) 487-4650

2.7 COBOL PROCESSORS

VENDOR	PROCESSOR ID	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET		NONCON- PRMITIES
Amdahl Corporation	Amdahl COBOL, Version 1 Release 3 NIST-92/2081	Amdahl 5990 MSL Version 2 Release 1.4	12/1/93	High	Amdahl 5995-1400, 5995M, 5890 MSL Version 2, Release 1.4	Yes
Bull HN	COBOLM Release 2.1 NIST-92/1201	DPS 6000 Model 634 GCOS6 HVS Version 2.0	2/1/93	High	DPS6/EMMU GCOS6 Mod 400 Release 4.1 DPS6 PLUS HVS6 PLUS Version 2.0 DPS 6000 GCOS6 HVS Version 2.0	Yes
	COBOL 85 Version 8C83.0 NIST-92/1681	DPS-90 GCOS8 Version 4020 Release 3	7/1/93	High	DPS-9000, DPS-8000 GCOS8 Version 4020 Release 3	
Computer Associates	CA-Realia COBOL Version 4.2 Release V NIST-92/1261	IBM PS/2 Model 80 OS/2 Version 1.3	2/1/93	Intermediate	IBM PS/2 Model 55SX, 60, 70, 90, 95 OS/2 Version 1.3 IBM PS/2 Model 55SX, 60, 70, 80, 90, 95 OS/2 Version 1.21	
	CA-Realia COBOL Version 4.2 Release V NIST-92/1262	Compaq Deskpro 386 MS/DOS Version 5.0	2/1/93	Intermediate	Compaq Systempro, Deskpro 386, Portable 386, Portable III MS-DOS Version 2.1 thru 5.0	
Control Data Corporation	COBOL/VE Version 2.0 Release 91324 NIST-92/1101	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	. 1/1/93	High	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Level 780	
	MicroFocus COBOL/2 Version 1.2 NIST-92/1102	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	High	Control Data 4000 Series EP/IX Version 1.4.2	Yes
Digital Equipment Corporation	VAX COBOL Version 5.1 NIST-92/224A	VAX 8800 VAX/VMS Version 5.5	12/1/93	High	VAX 4000 models 200, 300; VAX 6000 Mod 200, 300, 400 500; VAX 8200, 8250, 8300, 8350, 85XX, 8600, 8650, 8700 8800, 8810, 8820, 8830, 8840 VAX 9000 models 210, 400; VAXft 3000 model 310; VAX- 11/730, /780, /785; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800, 3900; VAXstation II, 2000, 3100, 320 3500, 3520, 3540; VAX-server 3100, 3300, 3400, 3500, 3600 3602, 3800, 3900, 4000 models 200, 300; 6000 models 210/220, 310/320, 410/420, 510/520; VAX/VMS Version 5.5), ; (10,

COBOL PROCESSORS Continued

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
Hewlett-Packard Company	COBOL/HP-UX Version B.07.00 NIST-92/1661	HP 9000 Series 370 HP-UX Version 8.0	5/1/93	High	HP 9000 Series 318, 319, 320, 330, 332, 340, 350, 370, 375, 400, 425 HP-UX Version & 0	Yes 60,
	COBOL/HP-UX Version B.06.25 NIST-92/1662	HP 9000 Series 850 HP-UX Version 80	5/1/93	High	HP 9000 Series 815, 822, 825, 832, 807, 817, 827, 8 835, 837, 842, 845, 847, 8 852, 855, 857, 860, 865, 8 870, 877, 635, 645, 870/20 870/300, 870/400, 720, 73750, 705, 710 HP-UX Version &0	50, 67, 00,
	COBOLII/IX Version A.04.06 NIST-92/1663	HP3000 Series 930 MPE XL Version A.40.00	5/1/93	High	HP3000 Series 917, 920, 922, 925, 927, 932, 935, 9 947, 948, 949, 950, 955, 9 958, 960, 967, 980/100, 980/200 MPE XL Version A.40.00	
IBM Canada, Ltd.	COBOL/400 Version 2 Release 2 NIST-92/2071	AS/400 OS/400 Version 2 Release 2	9/1/93	Intermediate		
IBM Corporation	IBM SAA AD/CYCLE COBOL/370 Version 1 Release 1 NIST-93/1021	IBM 3090 MVS/ESA Version 4.22	12/1/93	High	IBM 390, 3000, 4381-T92, 9000 MVS/ESA Version 3	
	IBM SAA AD/CYCLE COBOL/370 Version 1 Release 1 NIST-93/1022	IBM 3090 VM/ESA Version ESA Release 1.0	12/1/93	High	IBM 390, 3000, 4381-T92, 9000 VM/ESA Version ESA Release 1.0	
	VS COBOL II Version 1 Release 3.2 NIST-92/1361	IBM 3090 Model 400E MVS/ESA Version 4.2.2	8/1/93	Intermediate	IBM 370, 390, 3000, 4300, 9000 MVS/370, MVS/XA Version 1.	2
	VS COBOL II Version 1 Release 3.2 NIST-92/1362	IBM 4381 Model R14 VSE/ESA Version I Release I	8/1/93	Intermediate	IBM 370, 390, 3000, 4300, 9000 VSE/ESA Version 1 Release 1	
	VS COBOL II Version 1 Release 3.2 NIST-92/1363	IBM 3090 Model 600J VM/ESA Version ESA Release 1.0	8/1/93	Intermediate	IBM 370, 390, 3000, 4300, 9000 VM Version SP Release 6	
Micro Focus	Micro Focus COBOL Version 3.0 NIST-92/1961	IBM PS/2 Model 80 OS/2 Version 1.3 IBM PS/2 Model 70 IBM DOS Version 5.0 IBM PS/2 Model 90 IBM OS/2, Version 2.0 Compaq Deskpro Microsoft OS/2, Version 1.21	8/1/93	High	IBM PS/2 80 OS/2 Version 2.0 IBM PS/2 60, 65SX, 70 OS/2 Version 1.3 IBM PS/2 60, 65SX, 80 DOS Version 5.0 IBM PS/2 60, 65SX, 70, 80 DOS Version 4.0 IBM PS/2 60, 65SX, 70, 80 DOS Version 3.3	•

COBOL PROCESSORS Continued

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Micro Focus COBOL for AIX Version 3.0 (IBM RS/6000) NIST-92/1963	IBM RS/6000 Powerstation 320 AIX Version 3.2	8/1/93	High		
	Micro Focus COBOL for UNIX Version 3.0 (Intel 80386/80486 running UNIX) NIST-92/1964	Compaq Deskpro 386/25 SCO UNIX Version v/386 Release 3.2	8/1/93	High		
	Micro Focus COBOL/2 for Unlx Version 1.2 (Digital DECStation) NIST-92/1965	Digital DECStation Ultrix, Version 4.0	8/1/93	High		Yes
	Micro Focus COBOL/2 for Unix Version 1.2 (Motorola 88000) NIST-92/1966	Motorola Delta 88000 UNIX, Version v/88 Release R32v2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (MIPS) NIST-92/1967	MIPS Magnum MIPS/OS Version 4.52	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (Intel 80386/80486 running UNIX) NIST-92/1968	UNISYS 6000-50 UNIX Version v/386 Release 4.0.2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (Arndahl) NIST-92/1969	Amdahl 5880-P142 UTS Version 2.1	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (Data General AViion) NIST-92/1964	Data General AViion DG/UX Version 5.4	8/1/93	High		Yes
	Micro Focus COBOL for AIX Version 1.3 (IBM AIX/370) NIST-92/196B	IBM 4381 AIX Version 1.2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Ver 1.3 (NCR 3000 running UNIX SVR4) NIST-92/196C	NCR System 3000 UNIX System, Version v/386, Release 4.0 Version 2	8/1/93	High		Yes

COBOL PROCESSORS Continued

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS F	NONCON- ORMITIES
	Micro Focus COBOL for AIX Version 1.3 (IBM PS/2) NIST-92/196D	IBM PS/2 Model 80 AIX, Version 1.2	8/1/93	High		Yes
Microsoft Corporation	Microsoft COBOL Version 5.0 NIST-92/1962	IBM PS/2 Model 60 IBM DOS Version 5.0 Compaq Deskpro Microsoft DOS, Version 4.01	8/1/93	High	IBM PS/2 Model 80 DOS Version 3.3	
Pyramid Technologies, Corp.	COBOL85 Version 5.1 Release 92a030 NIST-91/1861	MIServer OSx Version 5.1a Release 92a030	3/1/93	High	Pyramid 9000; 98x OSx Version 5.1a Release 92a030	
Siemens Nixdorf Informations- systeme AG	COBOL85 Version 2.0A NIST/NCC-92/958	7.592l BS2000 Version 10.0	2/1/93	High		
Tandem Computers Inc.	COBOL85 Version D10 NIST-92/1462	Nonstop CLX Guardian 90 Version D00	5/1/93	High	NonStop Cyclone and Cyclone/R; NonStop VLX and CLX/R Guardian 90 Version D00	Yes
Unisys Corporation	A Series COBOL85, Mark 4.0.1.2 NIST-92/2121	Unisys A10 MCP/AS MARK 4.0	10/1/93	High	Unisys A Ser Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A11, A12, A15, A16, A17, A19; MCP/AS MARK 4.0	
Wang Laboratories, Inc.	VS COBOL 85 Version 2.12.01 NIST-92/2281	WANG VS 300 VS OS Version 7.40.00	12/1/93	High	VS 5, 6, 15, 25, 45, 65, 85, 90, 100, 300; 5000, 7000, 8000, 10000 VS OS Version 7.20.00 - 7.40.00 VS OS Version 7.30.00 - 7.40.00	Yes

2.8 FORTRAN PROCESSORS

VENDOR	PROCESSOR ID	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Amdahl Corporation	Amdahl Fortran Version 1 <i>NIST-92/2082</i>	Amdahl 5990 MLS Version 2 Release 1.4	12/1/93	Full	Amdahl 5995-1400, 59 5890 MLS Version 2 Release 1.	·
Bull HN	FORTRANA Release R3.1 NIST-92/1202	DPS 6000 Model 634 GCOS6 HVS Version 2.0	2/1/93	Full	DPS6/EMMU GCOS6 MOD 400 Release DPS6 PLUS HVS6 PLUS Version 2.0 DPS 6000 GCOS6 HVS Version 2.0	· 4.1
	Fortran 77-ESV Version 8FV4.1 NIST-92/1682	DPS-9000E GCOS8 Version SR40203	7/1/93	Full	DPS-90, DPS-8000 GCOS8 Version SR40203	
Concurrent Computer Corporation	SP-2450 (Fortran 77) Version 2 Release 1 NIST-92/1501	7100 RTU 6.1	6/1/93	Full	7400, 7500, 7200, 7502 RTU Version 6.1 6300, 6350, 6400, 6450 6600, 6605, 6650, 6652 6655, 6700, 6705, 6750 RTU Version 6.0), 2,
	SP-2450 (Fortran 77) Version 2 Release 2 NIST-92/1504	8500/4 RTU 6.0A	6/1/93	Full	8450, 8550, 8400 RTU Version 6.04	
	Fortran VII Z Version R06 Release 01 NIST-92/1502	3280 MPS OS/32 Version R09 Release 01	6/1/93	Fuil	3205, 3210, 3220, 3230 3240, 3250, 3230XP, 32 3280XP, 3230MPS, 326 3280E MPS; Micro 320 Micro 3200ES*, Micro 34 MPS* OS/32 Version R09 Release	250XP, 60MPS, 10CS*, 3200
	Fortran VII O Version R06 Release 01 NIST-92/1503	3280 MPS OS/32 Version R09 Release 01	6/1/93	Full	3205, 3210, 3220, 3230 3240, 3250, 3230XP, 32 3280XP, 3230MPS, 326 3280E MPS; Micro 320 Micro 3200ES*, Micro 3 MPS* OS/32 Version R09 Release	250XP, 60MPS, 0CS*, 3200
Control Data Corporation	Fortran/VE 1 Version 1.7 Level 780 NIST-92/1421	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Full	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Lev	rel 780
	Fortran/VE 2 Version 2.6 Level 780 NIST-92/1422	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Full	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Lev	pel 780
	Fortran 77 Version 2.2.0 NIST-92/1103	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	Full	Control Data 4000 Seri EP/IX Version 1.4.2	es
	Peak Fortran Version 1.1 NIST-92/1104	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	Full	Control Data 4000 Serie EP/IX Version 1.4.2	es

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
····	Q VSK #	OI ENAITING SISTEM	DAIL		1147/05	POMILIES
Convex Computer Corporation	Convex Fortran Version 7.0 NIST-92/1521	Convex C3820 Convex OS Version 10.0	4/1/93	Full	Convex C38 Series Convex OS Version 10.0	
	Convex Fortran Version 7.0 NIST-92/1522	Convex C240 Convex OS Version 10.0	4/1/93	Full	Convex C1, C2, C32 S Convex OS Version 9.1	Geries
	Convex Fortran Version 7.0 NIST-92/1523	Convex C3420 Convex OS Version 10.0	4/1/93	Full	Convex C34, 31, 53 Se Convex OS Version 10.0	eries
Cray Research, Inc.	CF Compiling System Release 5.0.1 NIST-92/1221	Cray X-MP UNICOS Release 6.1.5A	3/1/93	Full	Cray X-MP EA & Y-MP In X-mode UNICOS Release 6.1.5A	Series
	CF77 Compiling System Release 5.0.1 NIST-92/1222	Cray Y-MP/832 UNICOS Release 6.1.54	3/1/93	Full	Cray Y-MP Series; Cray X-MP EA Series UNICOS Release 6.1.5A	
	CF77 Compiling System Release 5.0.1 NIST-92/1223	Cray-2S 4/128 UNICOS Release 6.1.5A	3/1/93	Full	Cray-2S Series; Cray-2 Series UNICOS Release 6.1.5A	
Digital Equipment Corporation	DEC Fortran Version 3.2 NIST-92/2241	DECstation 5000, Mod 200 Ultrix Version 4.2	12/1/93	Full	Decstation 2100 3100 5 5000-120/125, 200, 20 200PX, 200PXG, 200PX Turbo; DECsystem 310 5000 Mod 200, 5100, 5 5500, 5810, 5820, 5830 Ultrix for RISC Version 4.2	OCX, KG 00, 5400, 0, 5840
	DEC Fortran Version 3.1 NIST-92/2242	DECstation 5000-125 OSF Version 1.0	12/1/93	Full	Decstation 2100 3100 3 5000-120/125, 200, 20 200PX, 200PXG, 200PX Turbo; DECsystem 310 5000 Mod 200, 5100, 5 5500, 5810, 5820, 5830 OSF Version 1.0	0CX, KG 00, 5400,
	VAX Fortran Version 5.8 NIST-92/2243	VAX 6000-420 VAX/VMS Version 5.4	12/1/93	Full	VAX 4000 Mod 200 300 Series 200 300 400 500 8250 8300 8350 85xx 8 8650 8700 8800 8810 8 8830 8840; 9000 Mod 3 Ser 400; VAXft 3000-31 VAX-11/730/750/780/7 MicroVAX II 2000 3100 3400 3500 3600 3800 3 VAXstation II 2000 3100 3500 3520 3540; VAX-8 3100 3300 3400 3500 3 3602 3800 3900 4000 N 200 300; 6000 Mod 210 310/320 410/420 510/ VMS Version 5.4	0; 8200 8600 8820 210 00; 785; 3300 3900; 0 3200 server 3600 Wod

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	DEC Fortran for OPenVMS VAX, Version 6.0 NIST-92/2244	VAX 6000-420 VMS Version 5.4	12/1/93	Full	VAX 4000 Mod 200 30 Series 200 300 400 50 8250 8300 8350 85xx 8650 8700 8800 8810 8830 8840; 9000 Mod Ser 400; VAXft 3000-3 VAX-11/730/750/780/ MicroVAX II 2000 310 3400 3500 3600 3800 VAXstation II 2000 310 3500 3520 3540; VAX- 3100 3300 3400 3500 3602 3800 3900 4000 200 300; 6000 Mod 2: 310/320 410/420 510 VMS Version 5.4	00; 8200 8600 8820 210 610; /785; 0 3300 3900; 00 3200 server 3600 Mod
	DEC Fortran for OpenVMS AXP, Version 6.0 NIST-92/2246	DEC 3000-500 Open VMS AXP Version 1.0	12/1/93	Full	DEC/10000, /7000, /4 /3000, 2000, 1000 Open VMS AXP Version	
	VAX Fortran Ultrix Version 5.1 NIST-92/2245	VAX 6320 VMS Version 5.4	12/1/93	Full	VAX 4000 Mod 200 30 Series 200 300 400 500; 8250 8300 8350 85xx 86 8700 8800 8810 8820 88 8840; 9000 Mod 210 Se VAXft 3000-310; VAX: 11/730/750/780/785; MicroVAX II 2000 310 3400 3500 3600 3800 39 VAXstation II 2000 310 3500 3520 3540; VAX-8 3100 3300 3400 3500 36 3800 3900 4000 Mod 20 6000 Mod 210/220 310, 410/420 510/520 Ultrix Version 4.2	8200 600 8650 630 67 400; - 00 3300 600; 60 3200 6erver 600 3602 100 300;
Edinburgh Portable Compilers LTD	EPC Fortran 77 Version 2.6.4.1 NIST/NCC-92/961	ICL DRS 3000 ICL DRS/NX SVR4 Version 5.0	10/13/93	Full		
	EPC Fortran 77 Version 2.6.4.4 NIST/NCC-92/962	ICL DRS 6000 ICL DRS/NX SVR4 Version 5.0	10/13/93	Full		
Encore Computer Corporation	Parallel Fortran + Version 1.1 NIST-92/1544	Encore 93 UMAX V Version 3.1	4/1/93	Full	Encore 91 UMAX V Version 3.0.6	
	Parallel Fortran + Version 1.1 NIST-92/1543	Encore 91 UMAX V Version 3.0.6	4/1/93	Full	Encore 93 UMAX V Version 3.1	
	Fortran-77 + Version 5.1 NIST-92/1541	Concept 32/97 MPX-32 Version 3.5u02	4/1/93	Full	Concept 32/67, 32/20 Encore RSX MPX-32 Version 3.5u02	DOX,

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCOL HW/OS FORMITIE
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Fujitsu America, Inc.	Fortran 77-M Version 10 Level 31 NBS/ICST-88/3561	Amdahl 5860 IBM MVS/SP Version 2.2.0	12/1/93	Full	Amdahl 580; Amdahl Vector Processor IBM MVS/SP Version 2
	Fortran 77/VP-M Version 10 Level 30 NBS/ICST-88/3562	Amdahl 1200E IBM MVS/SP Version 2.2.0	12/1/93	Full	Amdahl Vector Processor; Amdahl 580 IBM MVS/SP Version 2
	Fortran 77 Version 10 Level 31 NBS/ICST-88/3563	Amdahl 1200E VSP Version 10	12/1/93	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 10
	Fortran 77/VP Version 10 Level 30 NBS/ICST-88/3564	Amdahl 1200E, FACOM VP VSP Version 10	12/1/93	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 10
	UTS Fortran 77 EX Version 10 Level 10 NIST-91/1381	Fujitsu M760 UTS/M Version 22 Level 10	2/1/93	Full	Fujitsu M780 UTS/M Version 22 Level 10
	UTS Fortran 77 EX Version 10 Level 10 NIST-91/1382	Amdahl 5990 UTS Version 2 Release 1	2/1/93	Full	Amdahl 5990 UTS Version 2.0
	OSIV/MSP Fortran 77 Version 11 Level 10 NIST-91/1383	Fujitsu VP100E OSIV/F4 MSP Edition 20	2/1/94	Full	Fujitsu M780; M760 OSIV/F4 MSP Edition 20
	OSIV/MSP Fortran 77 Version 11 Level 10 NIST-91/1384	Amdahl 5990 IBM MVS/SP Version 3 Release 1.3	2/1/94	Full	IBM 3090/200E IBM MVS/SP Version 2 Release 2.3
	UXP/M Fortran77 EX/VP Version 12 Level 10 NIST-91/1601	Fujitsu VP2400/10 UXP/M Version 10 Level 10	2/1/94	Full	Fujitsu VP2000 Series UXP/M Version 10 Level 10
	UXP/M Fortran77 EX Version 12 Level 10 NIST-91/1602	Fujitsu VP2400/10 UXP/M Version 10 Level 10	2/1/94	Full	Fujitsu VP2000 Series Fujitsu M Series <i>UXP/M Version 10 Level 10</i>
HNSX Supercomputers, Inc.	Fortran77/SX (f77sx) Release 031 NIST-93/1081	NEC SX-3 Model 22 SUPER-UX Release 2.2	1/1/94	Full	NEC SX-3/11, /12, /14, /24, /42, /44; HNSX SX-3/11, /12, /14, /24, /42, /44 SUPER-UX Release 22
Hewlett-Packard Company	HP 9000 S800 Fortran 77 Version A.09.00 NIST-93/1123	HP9000 Model 835 HP-UX Version 9.0	1/1/94	Full	HP9000, mod 807, 817, 825, 827, 834, 835, 837, 840, 845, 847, 850, 857, 860, 867, 870 HP-UX Version 9.0
	HP 9000 S700 Fortran 77 Version A.09.00 NIST-93/1121	HP9000 Model 720 HP-UX Version 9.0	1/1/94	Full	HP9000, mod 705, 710, 730, 750 <i>HP-UX Version</i> 9.0

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	HP 9000 S300/S400 Fortran 77 Version A.09.00 NIST-93/1122	HP9000 Model 433T HP-UX Version 9.0	1/1/94	Full	HP9000, mod 400, 425 345, 350, 360, 370, 375 385 HP-UX Version 9.0	
	HP 3000 S900 Fortran 77 Version A.04.31 NIST-93/1124	HP3000 Model 947LX MPE/IX Version 4.0	1/1/93	Full	HP3000, mod 917, 922 927, 930, 932, 935, 937 955, 957, 960, 967, 980 MPE XL Version A.50.10	, 950,
IBM Canada, LTD	IBM AIX XL Fortran Compller/6000 Version 2 Release 2 NIST-92/1341	IBM RISC System/6000 Powerstation 530 IBM AIX Version 3 Release 2	3/1/93	Full	IBM RISC System/6000 Powerstation/Powerser Mods 220, 320H, 340, 3 520H, 530, 530E, 540, 3 560, 560F, 730, 930, 95 AIX for RISC System/6000 Version 3 Release 2	ver 350, 550, 50
	IBM AIX XL Fortran Compller/6000 Version 2 Release 3 NIST-92/2031	IBM RISC System/6000 POWERstation/ POWERserver 540 AIX for RISC System/6000 Version 3 Release 2	9/1/93	Full	RISC System/6000 Pov station/Powerserver 22 320H, 340, 350, 520H, 5 530E, 540, 550, 560, 56 730, RISC System/6000 Powerserver 930, 950, 9 AIX for RISC System/6000 Version 3 Release 2	0, 530, 60F, 0 970
IBM Corporation	VS Fortran Version 2 Release 5 NIST-91/1921	IBM 4381 VM/SP Version 1 Release 5	8/1/93	Full	S/370 30xx, 43xx, 93xx S/390, ES/9000 VM/XA Version 1, Rel 1, 2 VM/ESA Version 1, Rel 1,	
	VS Fortran Version 2 Release 5 NIST-91/1922	IBM S/370 3090 MVS/ESA SP Version 4 Release 2	8/1/93	Full	S/370 30xx, 43xx, 93xx S/390, ES/9000 MVS/SP Version 1, Release MVS/SP Version 2, Release MVS/SP Version 3, Release	2 3 2 2
	VS Fortran Version 2 Release 5 NIST-90/1823	IBM 3090 AIX/370 Version 1 Release 2	8/1/93	Full	S/370, 30xx, 43xx, 93xx AIX/370 Version 1, Release	
Intergraph Corporation	CLIPPER Advanced Optimizing Fortran, Version 1.57 NIST-93/1041	CLIPPER IS4000 CLIX, Version 6.5	12/1/93	Full	CLIPPER C300 and C40 CLIX, Version 6.5	00
Liant Software Corporation	Fortran/400, Version 1 Release 3 NIST-92/1181	IBM AS/400 B4500 IBM OS/400, Version 1	1/1/94	Full		
	Fortran/400, Version 2 Release 1 NIST-92/1182	IBM AS/400 B4500 IBM OS/400, Version 2	1/1/94	Full		

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
Microsoft Corporation	Microsoft Fortran Version 5.1 NIST-91/1841	IBM PS/2 Model 80/386, 80387 math co-processor MS-DOS Version 5.0	7/1/93	Full		
		COMPAQ DESKPRO 486/25 OS/2 Version 1.2				
		COMPAQ 286, 80287 math co-processor DOS Version 3.31				
		Everex 386, 80287 math co-processor DOS Version 3.31				
MIPS Computer Systems, Inc.	Mips Fortran Version 3.0 Release 3.0 NIST-92/1121	M/120 RISC/os Version 5.0 Release 5.0	1/1/93	Full	M/500, M/800, M/1000 M/2000, M/120, RC326 RC3260G, RC3240, RC3260G, RC3230, RC3350, RC3350, RC3350, RC3230, RC3260, RC6260, RC6260, RC6280(scsi base) RISC/os Version 5.0 Rel 5.	50, 3330, 360, 230, 280,
Olivetti Systems & Networks s.r.l.	Green Hills Fortran 77 Release 1.1 IMQ/FCVS-001/91	Olivetti LSX 5010 Unix System V R4.0 Version 2.0	12/12/92 (pending)	Full	LSX 5000, M4xx, M3xx M380/XP9 Unix System V R4.0 Version	
Prime Computer, Inc.	Fortran 77 Release T3.0-23.0 NIST-91/1721	Prime Model 9955 Primos Revision 23.0	5/1/93	Full	2350 2450 2355 4050 4 4450 6150 6350 6550 2 2655 2755 9650 9655 9 9755 9950 9955-II 5310 5330 5340 w/32IX-mod arch.; 2350 2450 2355 4150 4450 6150 6350 6 2250 2550 2655 2755 9 9655 9750 9755 9950 9 750 850 5310 5320 533 5340 w/32I-mode arch. 2450 2355 4050 4150 4 6150 6350 6550 2250 2 2655 2755 9650 9655 9 9755 9950 9955-II 750 8 5310 5320 5330 5340 w mode arch. PRIMOS Revision 23.0	550 750 5320 e 4050 550 650 955-II 0 2350 450 550 750
Salford Software Limited	FTN77/386 Version 2.69 NIST/NCC-92/963	Vanilla 386-SX MS-DOS Version 5.00	10/13/93	Full		
	FTN77/386 Version 2.69 NIST/NCC-92/964	Tandon 486 SL MS-DOS Version 5.00	10/13/93	Full		,

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	FTN77/ix Version 1.19 NIST/NCC-92/965	Elonex PC 386S-200 SCO Unix Version 5.3.2	10/13/93	Full		
Sequent Computer Systems, Inc.	ptx Fortran Version 2 Release 1P NIST-92/2141	S2000/250 Dynix/ptx Version 2 Release 0	10/1/93	Full	S2000/450, S2000/750 Dynix/ptx Version 2 Release	
Siemens Nixdorf Informations- systeme AG	FOR1 V2.2A GMD/VAL-92-003	Siemens 7.592-l BS2000 V10.04	12/31/92	Full		
	Sinix Fortran 77 V1.2B GMD/VAL-92-009	RM600 Sinix-P V5.4I	12/31/92	Full		
	Sinix Fortran77 V1.2C GMD/VAL-92-010	Targon/31 (Motorola 68040) Sinix-TOS-O V5.41	7/1/93	Full		
	Sinix Fortran 77 V1.1A/V1.2A/V1.2B GMD/VAL-91-009	MX500-F Sinix-F V5.21 MX300-H Sinix-H V5.23 MX300-L Sinix-L V5.4 WX200-K Sinix-ODT V1.5	2/1/93	Full		
Silicon Graphics Computer Systems Inc.	Fortran 4D77 Release S4-FTN 1-4.0 NIST-91/1201	IRIS 4D/25 IRIX 4D1-4.0	3/1/93	Full	IRIS 4D/20, 4D/25, 4D/ 4D/70, Power Series IRIX 4D1-4.0	/35,
Sun Microsystems, Inc.	Sun Fortran (FOR-1.4-4-3-5) Version 1 Release 4 NIST-91/1301	SUN-3/80 w/MC 68882 SUNOS (SM3-07) Version 4 Release I	3/1/93	Full	SUN-3/470, SUN-3/480 SUN-3/60, SUN-3/180, SUN 3/260 w/MC 6888 SUNOS (SM3-07) Version Release I	32
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1302	SPARCstation 2 (SUN- 4/75) w/FPU (TI TMS390C602A) SUNOS (SS2-07) Version 4 Release I	3/1/93	Full	SPARCserver 2 (SUN-4 w/FPU (TI TMS390C60 SUNOS (SS2-07) Version 4 Release 1	2A)
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1303	SPARCserver 330 (SUN- 4/330) w/FPU2 (TI 8847) SUNOS (SS2-07) Version 4 Release 1	3/1/93	Full	SPARCserver 470 (SUN 4/470) w/FPU2 (TI 884 SUNOS (SS2-07) Version 4 Release 1	7)
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1304	SPARCserver 490 (SUN- 4/490) w/FPU2 (TI 8847) SUNOS (SS1-07) Version 4 Release I	3/1/93	Full		

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1305	SPARCstation IPC (SUN- 4/40) w/FPU (WEITEK 3172) SUNOS (SS2-07) Version 4 Release 1	3/1/93	Full	SPARCstation SLC (SU 4/20); SPARCstation 1-(SUN-4/65) w/FPU (WE 3172) SUNOS (SS2-07) Version 4 Release 1	+ EITEK
Tandem Computers, Inc.	Fortran Version D10 NIST-92/1461	NonStop CLX Guardian 90 Version D00	5/1/93	Full	NonStop Cyclone, Cyclone/R; VLX, CLX/F Guardian 90 Version D00	1
Unisys Corporation	A Series Fortran77 Mark 4.0 NIST-91/2212	Unisys A10 MCP/AS Mark 4.0	10/1/93	Full	Unisys A Series, Micro A2, A3, A4, A5, A6, A9, A12, A15, A16, A17, A18	A10,

2.9 Ada PROCESSORS

The following are Ada compilers that have been validated by the Ada Joint Program Office (AJPO). Compilers are listed in order of vendor. The list is updated monthly, and presently includes 259 base compilers and 198 compilers derived from base implementations. For the most current information on validated Ada compilers, please contact the Ada Information Clearinghouse at (703) 685-1477.

For background information, please see "An Introduction to the Validation Process".

(Key: * = Validated through Registration, base system above)

#YYMMDDFX.XXNNN = Certificate Number:

YYMMDD = date on-site testing was completed;

= Ada Validation Facility;

X.XX = ACVC Version;

NNN = sequence number assigned by AVO

The extension of ACVC 1.11 certificates is to "at least" 1 March 1993. The current Ada 9X Transition plan calls for ACVC 1.11 to expire 1 June 1992, with certificates expiring 12 months later (1 June 1993).

On April 14, 1992, the AJPO announced it was "freezing" the Ada Compiler Validation Capability (ACVC) on version 1.11. Current ACVC 1.11 certificates will expire two years after Ada 9X has been adopted by ANSI. The ACVC version 1.11 will expire one year before certificates (i.e., 12 months after ANSI Ada 9X adoption) as has been the practice. This extended life for ACVC 1.11 means that there will be an overlap period between ACVC 1.11 (for ANSI/MIL-STD-1815A validations) and ACVC 2.0 (for ANSI/MIL-STD-1815B validations).

WENDOR, COMP & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)
AETECH, Inc. IntegrAda 386 5.1.0	Northgate 386/25 (under Phar Lap/DOS 3.3)	Northgate 388/25 (under MS DOS 3.3)	Altech Defense Systems, Inc. Al-ADA/96K,	VAXstation 3100 Cluster (under VMS 5.3)	DSP98002 ADS board (bare machine)
(#901120W1.11087)			Version 3.0 (#911012W1.11224)		
*Validated by Registra	tion		(55,101,011,011,011,011,011,011,011,011,0		
AETECH, Inc. IntegrAda 386 5.1.0 (BASE #901120W1.11087)	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, dist: 40 MByte hard drive (under	Any Computer System Comprising: cpu: Intel 80386, fpu: optional, memory: 4 MByte RAM, disk: 40 MByte hard drive (under	Altech Defense Systems, Inc. Al-ADA/96K, Version 3.0 (#911012W1.11225)	8un-4/330 (under SunOS 4.1.1)	DSP98002 ADS board (bare machine)
	Phar Lap/DOS 3.3)	MS DOS 3.3)			
AETECH, Inc. IntegrAda 5.1.0 POSIX (#901129W1.11086)	Unlays PW/2 388 (under SCO Unix 3.2)	Same as Host	Alenia Aeritalia & Selenia S.p.A DACS VAX/VMS to 80x88 PM MARA Ada Cross Compiler, Version 4.8	MicroVAX 4000/200 (under VMS Version 5.4)	Alenia MARA (80288-based) (under Alenia Operating System, Version 8.6 System)
"Validated by Registrat	tion		(#920509S1.11259)		
AETECH, Inc.	Any Computer System	Same as Host			
IntegrAda Poeb	Comprising: cpu: Intel		*Validated by Registration		
5.1.0 (BASE	80388, fpu: optional,		Alenia Aeritalia	DEC VAX-11, VAXserver,	Alenia MARA 80386- &
(BASE #801129W1.11086) "Validated by Registrat	memory: 4 MByte RAM, disk: 60 MByte hard drive (under SCO Unix 3.2)		& Selenia S.p.A DACS 80x86PM, Version 4.60 (BASE #920509S1.11259)	VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, & VAX 9000 Series of computers (under VMS 5.4)	80488-based computers (under Alenia Operating System 8.6)
AETECH, Inc.	Any Computer System	Same as Host	7 223333 1.112327		
AETECH POSIX Compiler, Version 5.1.0 (BASE #901129W1.11086)	Comprising: cpu: Intel 80386 & 80486, fpu: optional, memory: 4 MByte RAM, disk: 60 MByte hard drive (under interactive Unix System V, Release 3.2)		Alliant Computer Systems Corporation Alliant FX/Ada-2800 Compiler, Version	Alliant FX/2800 (under Concentrix Release 2.0)	Same as Host
Altech Defense	VAXstation 3100 Cluster	Tadpole TP880V	(#901218W1.11105)		
Systems, Inc. AI-ADA/88K Version 2.4	(under VMS 5.3)	(88100-based VME board) (bare machine)	•	Alliant FX/80 (under Concentrix Release 5.7)	Same as Host
(#900830W1.11030)			Corporation		
Validated by Registrat	loo		Alliant FX/Ada Compiler, Version		
Altech Defense	All DEC MicroVAX	Tadpole TP880V (88100-based	2.3		
Systems, Inc. Al-ADA/88K,	VAXstation, VAXserver, VAX-11, VAX 8xxx & VAX 6xxxx	VME board) & Motorola MVME181 (88100-based VME	(#901218W1.11108)		
Version 2.4 (BASE #900930W1.11030)	series (under VMS versions 5.0, 5.1, 5.2 & 5.3, as	board) (bare machines)	AleyCOMP_053,	VAX 8530 (under VMS, Version 5.1)	Same as Host
F800830W1,11030)	supported)		Version 1.82 (#900509I1,11009)		

/ENDOR, COMPILE & CERTIFICATE #	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (0)
Usys	IBM 9370 Model 90 (under	Same as Host	*Validated by Registration	1	
UsyCOMP_042,	AIX/370 Version 1.2)		Alsys	Unigraph 1000/325, 2000/50,	Any Host
ersion 5.3			AlsyCOMP_035,	2000/250, 2000/325,	
#900827N1.11013)			Version 5.3	3000/325-333, 6000/325-333,	
			(BASE	7000/325, 8000/325 & 9000	
•	Sun-3/80 (under SunOS, Version 4.0.3)	Same as Host	#901022A1.11048)	(under Unigraph/X 3.1 & 3.1.1)	
ersion 1.82 #900614I1,11040)	,		Alsys	Compaq Deskpro 386 (under	Same as Host
P80061411.11040)			AlsyCOMP 016	MS-DOS 3.30, Phar Lap 2.0)	Carrie as Front
ulsys	MIPS M/120-5 (under	Same as Host	Version 5.1	M3-D03 3.30, F/M2 CMP 2.0)	
•	RISC/os, Version 4.0)	GEIN ES FIOR	(#901102W1.11055)		
ersion 1.83	1400/04, 1618/01 4.0)		(1001102111111000)		
#900814I1.11041)			*Validated by Registration		
			Alays	Any Computer System that	Any Host
daya	Sony NEWS NWS-1850 (under	Same as Host	AlsyCOMP 016	executes the Intel 80386 or	,
•	NEWS-OS 3.3)		Version 5.1.1	80486 Instruction set	
Version 5.3	NEW 3-03 3.3)		(BASE	(under MS/DOS 5.0 & Phar	
#901022A1.11043)			#901102W1.11055)	Lap 4.0)	
P801022X1.11040)			7501102111111000)		
Validated by Registration			Alsys	CompuAdd 320 (under MS-DOS	Same as Host
	Sony NEWS series 1250,	Any Host	AlsyCOMP_016	3.30. Phar Lap 2.0)	CONTROL OF 1 PAGE
	15xx, 17xx, 18xx & 19xx	raig Hotel	Version 5.1	and, the cap adj	
	(under NEWS-OS versions 3.3		(#901102W1.11058)		
	(under NEWS-OS versions 3.3 & 3.4)		(F501102H1.11000)		
901022A1,11043)	u		*Validated by Registration		
			Alsys	HP Vectra RS/20, RS/20C,	Any Host
isys	Apollo DN4000 (under	Same as Host	AlsyCOMP 016,	RS/25 & RS/25C; AST Premium	rang i Noon
	Apollo DN4000 (under Domain/OS SR10.2)	Quitte de l'IOBL	Version 5.1	386; and Unisys 386 &	
ersion 5.3	Domain/OS Sh 10.2)		(BASE	Desitop III (under MS-DOS	
#901022A1.11044)			#901102W1.11056)	3.30, Phar Lap 2.0)	
			750110211111000	5.50, 1.12 2.49 2.59	
Validated by Registration			*Validated by Registration		
	Apollo DN3000, DN3500,	Any Host	Alsys	Any Computer System	Same as Host
	DN4000 & DN4500 (under	,	AisyCOMP 016	Comprising: cpu: Intel	
	Domain/OS SR10.2 & SR10.3)		Version 5.1	80386; fpu: optional;	
BASE	,,		(BASE	memory: 5 MByte RAM; disk:	
901022A1.11044)			#901102W1.11056)	10 MByte (under MS-DOS	
			·	3.30, Phar Lap 2.0)	
leys	Bull DPX/2 320 (under	Same as Host			
byCOMP 050,	B.O.S. 02.00.05)		Alays	ALR Power Veisa 486 (under	Same as Host
ersion 5.3			AlsyCOMP 016	MS-DOS 3.30, Phar Lap 2.0)	
P901022A1.11045)			Version 5.1		
			(#901102W1.11057)		
Validated by Registration					
laya	Bull DPX 2/210, /220, /320,	Any Host	Aleys	HP Vectra RS/25C (under	Same as Host
hyCOMP_050,	/340 & /360 (under BOS		AlayCOMP_003	MS-DOS 3.30)	
ersion 5.3	02.00.05 & 2.00.10)		Version 5.1		
BASE	·		(#901102W1.11058)		
901022A1.11045)					
			*Validated by Registration		
	HP 9000s350 (under HP-UX	Same as Host	Alays	Unisys Desktop III (under	Same as Host
	8.5)		AlsyCOMP_003,	MS-DOS 3.30)	
ersion 5.3			Version 5.1		
F901022A1.11046)			(BASE		
Juliana a transfer			#901102W1.11058)		
Validated by Registration	ID				
	HP 9000 Series 300, all	Any Host	*Validated by Registration		
-	models (under HP-UX 6.5 &			Any Computer System that	Any Host
	7.0)		AlsyCOMP_003	executes the Intel 80288,	
BASE			Version 5.1	80386, or 80488 instruction	
901022A1.11046)			(BASE	set (under MS/DOS 5.0)	
l	0	0	#901102W1.11058)		
lsys :	Sun-3/260 (under SunOS 3.2)	Same as Host			
			Aloys	Zenith Z-248 Model 50	Same as Host
byCOMP_005,			AlsyCOMP_003	(under MS-DOS 3.30)	
syCOMP_005, ersion 5.3			Version 5.1		
byCOMP_005,					
isyCOMP_005, ersion 5.3 P901022A1.11047)			(#901102W1.11059)		
isyCOMP_005, ersion 5.3 P901022A1.11047) Validated by Registration					
isyCOMP_005, ersion 5.3 P901022A1.11047) Validated by Registration isys	Sun 3/50, /60, /75, /80,	Any Host	*Validated by Registration		
tsyCOMP_005, eraion 5.3 P801022A1.11047) Validated by Registration isys tsyCOMP_005,	/160, /260, /280, /470 &	Any Host	*Validated by Registration Alsys	ICS SB286SC/12 (under	Same as Host
tayCOMP_005, eraion 5.3 P801022A1.11047) Validated by Registration tays tayCOMP_005, eraion 5.3	/180, /260, /280, /470 & /480 (under SunOS 3.2, 3.5,	Any Host	"Validated by Registration Alsys AlsyCOMP_003,		Same as Host
tsyCOMP_005, eraion 5.3 P901022A1.11047) /alidated by Registration tsys tsyCOMP_005, eraion 5.3 BASE	/160, /260, /280, /470 &	Any Host	"Validated by Registration Alsys AlsyCOMP_003, Version 5.1	ICS SB286SC/12 (under	Same as Host
tayCOMP_005, eraion 5.3 P801022A1.11047) Validated by Registration tays tayCOMP_005, eraion 5.3	/180, /260, /280, /470 & /480 (under SunOS 3.2, 3.5,	Any Host	"Validated by Registration Aisys AisyCOMP_003, Version 5.1 (BASE	ICS SB286SC/12 (under	Same as Host
teyCOMP_005, eraion 5.3 P901022A1.11047) /alidated by Registration teys teyCOMP_005, eraion 5.3 3ASE 901022A1.11047)	/180, /280, /280, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1)		"Validated by Registration Alsys AlsyCOMP_003, Version 5.1	ICS SB286SC/12 (under	Same as Host
tayCOMP_005, eraion 5.3 P801022A1.11047) /alidated by Registration tays tayCOMP_005, eraion 5.3 BASE 901022A1.11047)	/160, /260, /280, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1) CETIA Unigraph 6000 (under	Any Host Same as Host	"Validated by Registration Aisys AisyCOMP_003, Version 5.1 (BASE	ICS SB286SC/12 (under	Same as Host
tayCOMP_005, eraion 5.3 P801022A1.11047) /alidated by Registration tays tayCOMP_005, eraion 5.3 BASE 901022A1.11047)	/180, /280, /280, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1)		"Validated by Registration Aisys AisyCOMP_003, Version 5.1 (BASE	ICS SB286SC/12 (under	Same as Host

VENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		A Mark	*Validated by Registration		14-4
Alsys AlsyCOMP_003, Version 5.1 (BASE	HP Vectra ES/12; and IBM PC/AT (all models) (under MS-DOS 3.30)	Any Host	Alsys AlsyCOMP_015, Version 5.3 (BASE #901116A1.11068)	Sun 3/50, /80, /75, /80, /160, /260, /260, /470 & /480 (under SunOS 3.2, 3.5, 4.0 & 4.1)	Motorola MVME101 (88000), MVME121 (88010), MVME135- (88020/68881) & MVME147-1 (68030/68882), DATE (5.2)
#901102W1.11058)			#901110A1.11000)		machines, using ARTK 5.3)
Alsys AlsyCOMP_037, Version 5.2 (#901114N1.11065)	INMOS T800 transputer on a B405 TRAM (bare) with an INMOS B006 Communications link running INMOS iserver 1.3 PC/AT (under MS-DOS 3.1 and	INMOS T800 transputer on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 implemented in an IBM for file-server support via	Alsys AlsyCOMP_017, Version 5.2 (#901118N1.11084)	MicroVAX II (under VMS V5.3)	INMOS T425 transputer on a B403 TRAM (bare) using the Host running INMOS iserver 1.3 for file-server support via a CAPLIN QTO board link
	INMOS iserver V1.3)	an INMOS B006 board link			
*Validated by Registration			*Validated by Registration Alsys	n MicroVAX II (under VMS	INMOS T425 transputer on a
Alsys AlsyCOMP_037, V5.3 (BASE #901114N1.11065)	INMOS T800 transputer on a B403 TRAM (bare) with an INMOS B008 Communications link implemented in an IBM PC/AT (under MS-DOS 3.1 and	INMOS T800 transputer on a B405 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS iserver 1.3 for file-server support via	AlsyCOMP_017, V5.3 (BASE #901118N1.11084)	V5.3)	B403 TRAM (bare) using the Host running INMOS iserver 1.3 for file-server support via a CAPUN QTO board link; INMOS T800 transputer on a
	INMOS berver V1.3)	an InMOS B008 board link; INMOS T425 transputer on a B403 TRAM (bare) using an IBM PC/AT under MS-DOS 3.1 running INMOS iserver 1.3	*Validated by Registration		B405 TRAM (bare) using the Host running INMOS iserver 1.3 for file-server support via a CAPLIN QT0 board link
		for file-server support via an INMOS B008 board link	Alsys	MicroVAX II (under VMS	INMOS T425 transputer on a
*Validated by Registration	1		Alsycomp_017 Version 5.4.3	V5.3)	B403 TRAM (bare), using the Host running INMOS iserver
Alsys Alsycomp_037 Version 5.4.2 (BASE	INMOS T800 transputer on a B405 TRAM board (bare), with an INMOS B008 Communications link	INMOS T800 transputer on a B405 TRAM (bare), using an IBM PC/AT under MS-DOS 3.1 running INMOS isserver V1.42h	(BASE #901118N1.11084)		V1.42i for file-server support via a CAPLIN QT0 board link and INMOS T800 transputer on a B405 TRAM
#901114N1.11085)	Implemented in an IBM PC/AT (under MS-DOS 3.1 and INMOS Isserver V1.42h)	for file-server support via an INMOS B008 board link and INMOS T425 transputer on a B403 TRAM (bare), using an IBM PC/AT under MS-DOS 3.1			(bare), using the Host running INMOS isserver V1.42i for file-server support via a CAPLIN QTO board link
		running INMOS iserver V1.42h for file-server support via an INMOS B008 board link	Alays AlayCOMP_018 Version 5.2 (#901120A1.11070)	MicroVAX 3100 (under VMS 5.3)	Same as Host
Aleys	HP 9000s350 (under HP-UX	Motorola MVME101 (88000)	(F601120x1.11070)		
	6.5)	(bare machine, using ARTK	*Validated by Registration	1	
/ersion 5.3 (#901116A1.11066)		Version 5.3)	Alsys AlsyCOMP_018,	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX	Any Host
				4000, VAX 6000, VAX 8000 &	
Validated by Registration Nava	HP 9000 Series 300, Models	Motorola MVME101 (88000),		VAX 9000 Series of	
NeyCOMP_012,	340, 345, 380, 370 & 375 (under HP-UX 6.5 & 7.0)	MVME121 (88010), MVME135-1 (88020/68881) & MVME147-1	#901120A1.11070)	(under VMS 5.2 & 5.4)	Ones as Mark
F901116A1.11066) Validated by Registration		(68030/68882) (bare machines, using ARTK 5.3)	Alsys AlsyCOMP_006, Version 5.3 (#901125N1.11071)	IBM 9370 Model 90 (under VM/IS CMS release 5.1)	Same as Host
	HP 9000 Series 300 (all	Motorola M68332EVS	(100112011.11071)		
	models) (under HP-UX 6.5 & 7.0)	Evaluation System Customers (CPU32) (bare machine, using	Alsys AlsyCOMP_023,	IBM 370 3084Q (under MVS/XA release 3.2)	Same as Host
BASE F901116A1.11086)	,	ARTK 5.3)	Version 5.3 (#901125N1.11072)	terous disj	
VeyCOMP_036,	Apolio DN4000 (under Domain/OS SR10.2)	Motorola MVME147-1 (68030/68882) (bare machine,	AlsyCOMP_011,	VAX 6210 (under VMS 5.2)	Motorola MVME135-1 (68020/68881) (bare machine,
/ersion 5.3 ∉901116A1.11067)		using ARTK Version 5.3)	Version 5.3 (#901127A1.11089)		using ARTK Version 5.3)
Validated by Registration			*Validated by Registration		
Maya	Apollo DN 3000, 3500, 4000	Motorola MVME101 (68000),		DEC VAX-11, VAXaerver,	Motorola MVME101 (68000),
/ersion 5.3 BASE	& 4500 (under Domain/OS SR10.2 & SR10.3)	MVME121 (68010), MVME135-1 (68020/68881) & MVME147-1 (68030/68882) (bare	Version 5.3 (BASE	VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 6000 & VAX 6000 Series of	MVME121 (88010), MVME135- (68020/68881) & MVME147-1 (68030/68882) (bare
F901116A1.11067)		machines, using ARTK 5.3)		computers (as supported) (under VMS 5.2, 5.3 & 5.4)	machines, using ARTK 5.3)
Nays NayCOMP_015,	Sun 3/260 (under SunOS 3.2)	Motorola MVME121 (68010) (bare machine, using ARTK		Multitech 1100 (under SCO	Same as Host
/ersion 5.3 ∮901116A1,11068)		Version 5.3)		Unix 3.2)	

VENDOR, COMPIL. & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (OS)
Validated by Registration Alsys AlsyCOMP_034, Version 5.1 (BASE	n Everex AGI 3000D, Compaq Desipro 386 & SAI Technologier Army Lightweight Computer Unit (LCU V2) (under interactive		Alsys AlsyCOMP_049, Version 1.83 (#91040711.11144)	VAX 8530 (under VMS Version 5.3-1)	Integrated Device Technology IDT7RS301 System (R3000/R3010) (bare machine
#901221W1.11103)	Unix 3.2)		*Validated by Registration Alsys	1 VAX 8530 (under VMS 5.3-1)	Lockheed Sanders STAR MVF
*Validated by Registration Alsys AlsyCOMP_034, Version 5.1	n Prime MBX (under Prime Unix V.4)	Same as Host	AlsyCOMP_049, Version 1.83-01 (BASE #910407i1.11144)		(R3000/R3010) (bare machin
(BASE #901221W1.J1103)			Alsys AlsyCOMP 057,	DECetation 3100 (under ULTRIX Version 4.0)	Same as Host
*Validated by Registration Aleys	Any Computer System	Each Host, self-targetted	Version 1.83 (#910825i1.11193)		
AbyCOMP_034, Version 5.1 (BASE #901221W1.11103)	comprising: cpu: Intel 80388 or 80488; fpu: optional (under a Unix 3.2-based OS)		AlsycomP_024, Version 5.3	IBM RISC System 6000, model 520 (under ADX v3.1)	Same as Host
*Validated by Registration	n		(#910609W1.11195)		
Alsys	Any Computer System that	Any Host	*Validated by Registration		
AlsyCOMP_034 Version 5.1 (BASE #901221W1.11103)	executes the Intel 80386 or 80486 Instruction set (under SCO Open Desidop 1.1 & SCO Unix 3.2, SCO Open		Alays AlayCOMP_024 V5.4 (BASE #910809W1.11195)	IBM RISC System 6000 (all models) (under AIX 3.2)	Any Host
,	Desktop 2.0 & SCO Unix 3.2.4, Interactive Unix 3.2.2, and AT&T Unix System		Alsys AlsyCOMP_058,	Unksys B39 (under BTOS II, v3.2.0)	Same as Host
	V Release 4.0)		Version 5.3 (#910809W1.11196)		
Alsys AlsyCOMP_043, Version 5.3 (#901221W1.11104)	Apple Macintosh licx (under Macintosh System Software 6.0.5)	Same as Host	Alsys AlsyCOMP_040, Version 5.3	HP Vectra RS/25C (under DOS 3.30)	Unisys B39 (under BTOS II, v3.2.0)
Alsys	IBM PS/2 Model 80 (under	Same as Host	(#910809W1.11197)		
AlsyCOMP_034 Version 5.1 (#910129W1.11113)	LynxOS Version 2.0 + Threads Release 11)		AlsyCOMP_082, Version 5.35	HP 9000 Series 700 Model 720 (under HP-UX, Version A.B8.05 (release 8.05))	Same as Host
Validated by Registration	n		(#911107W1.11227)		
Alays AlayCOMP_034, Version 5.1 (BASE #910129W1.11113)	IBM PS/2 Models 70-sox & 80-sox (under LymxOS Version 2.0 Release 15)	Any Host	*Validated by Registration Alays AlayCOMP_062 Version 5.35 (BASE	HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05)); HP 9000 Series 800,	HP 9000 Series 700, all models (under HP-UX, Version A.B8.05 (release 8.05))
Alsys AlsyCOMP_056, Version 1.82	Sun 3/60 (under SunOS, Version 4.0.3)	KWS EB68020 (under OS-9/68020, Version 2.3)	#911107W1.11227)	all models (under HP-UX, Version A.B8.00 (release 8.00))	
(#910131 1.11127)	VAX 8530 (under VMS,	KWS EB68020 (under	AlaycomP_082, Version 5.35	HP 9000 Series 800 Model 835 (under HP-UX, Version A.B8.00 (release 8.00))	Same as Host
AlsyCOMP_055, /ersion 1.82	Version 5.3-1)	OS-9/68020, Version 2.3)	(#911107W1.11228)		
(#910201 1.11128)	Committed 20% (value 200)	1-1-1 1000 000 (440 B	*Validated by Registration Aisys	HP 9000 Series 700, all	HP 9000 Series 800, all
Nsys NsyCOMP_029, /ersion 5.3 ∉910323W1.11131)	CompuAdd 325 (under DOS 3.31)	Intel ISBC 386/118 (bare machine, using ARTK 5.3)	AlsyCOMP_082 Version 5.35 (BASE #911107W1.11228)	models (under HP-UX, Version A.B8.05 (release 8.05)); HP 9000 Series 800, all models (under HP-UX,	models (under HP-UX, Version A.B8.00 (release 8.00))
Naya NayCOMP_030,	MicroVAX II (under VMS 5.2)	Intel ISBC 386/31 (bare machine, using ARTK 5.3)		Version A.B8.00 (release 8.00))	
/ersion 5.3 /#910323W1.11132)			*Validated by Registration Aisys	HP 9000 Series 800 Models	Any Host
Alsys AlsyCOMP_033, /ersion 5.3	Sun 3/140 (under SunOS 4.1)	Intel ISBC 386/12 (bare machine, using ARTK 5.3)	AlsyCOMP_082 Version 5.35 (BASE #911107W1.11228)	807, 817, 847, & 867 (under HP-UX B-Level Security Operating System, Version A.08.08)	
#910323W1.11133)			Alsys	Sun SPARCetation 2 (under	Same as Host
Validated by Registration Visys AlsyCOMP_052, fersion 5.3.1 BASE	Sun Microsystems Sun-4, SPARCserver, & SPARCstation computer families (under SunOS 4.1)	Intel ISBC 386/31, ISBC 386/1xx, ISBC 486/1xx (bare machines, using ARTK 5.3)	AlsyCOMP_047 Version 5.37 (#911119A1.11231)	SunOS 4.1.1)	

#910323W1.11133)

& CERTIFICATE #	ER HOST # MACHINE & (OS)	TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (05
				.``	
Validated by Registration			Concurrent	Concurrent Computer	Same as Host
Lisys	Sun SPARCetation ELC, IPC &	Any Host	Computer	Corporation 8400 (MIPS	
UsyCOMP_047,	IPX; SPARCeerver 330, 370,		Corporation	R3000/3010) (under RTU	
ersion 5.37	390, 470, 490, 630MP, 670MP		C3Ada, Version	Version 5.1)	
BASE	& 690MP (under SunOS 4.1.1)		0.5		
911119A1.11231)			(#90042711.11006)		
Validated by Registration	n		*Validated by Registration	i	
days	Solbourne Series 5/500,	Any Host	Concurrent	Concurrent Computer	Same as Host
byCOMP 047,	/530, /600, /670, /600 &		Computer	Corporation 8500 (MIPS	
ersion 5.37	5E/900; and S4000 (under		Corporation	R3000/R3010) (under RTU	
ASE	OS/MP 4.1)		C3Ada, Version	Version 5.1)	
911119A1,11231)			0.5	•	
			(BASE		
lays	DECetation 3100 (under	Lockheed Sanders STAR MVP	#90042711.11008)		
byCOMP 061,	ULTRIX Version 4.2)	board (R3000/3010) (bare			
ersion 1.83		machine)	Concurrent	Concurrent Computer	Same as Host
920429(1.11251)			Computer	Corporation 6650 with Super	<u> </u>
			Corporation	Lightning Floating Point	
lays	Control Data 4338 (under	Same as Host	C3 Ada Version	(under RTU Version 5.0C)	
syCOMP 089,	TC/IX 1.0.2)	Comments of the Comments of th	1.1v	,	
ersion 1.83	10/20 1302)		(#901130W1.11107)		
92073011,11262)			(##01130#1.11107)		
			*Validated by Registration		
вув	HP 9000 Series 800 Model	Same as Host	Concurrent	Concurrent Computer	Any Host
byCOMP 082	827 (under HP-UX Version		Computer	Corporation Series 6000	,
ersion 5,35	8.02)		Corporation	with Super Lightning	
921118N1.11298)	0.02)		C3 Ada, Version	Floating Point, and Series	
921110H1.11280)			•	•	
	MIN ED (DOOD No del DAD	Ones on Mark	1.1v	5000 with Lightning	
lsys	IBM ES/9000 Model 610	Same as Host	(BASE	Floating Point (all models)	
ysCOMP_073,	(under AIX/ESA Version 2)		#901130W1.11107)	(under RTU Version 5.0A,	
ersion 5.3				5.08 & 5.0C)	
P921126N1.11300)					
an / Comen	Sum 2/60 fundas Sum 00	D	*Validated by Registration		Dama on Hard
sys / German	Sun-3/60 (under SunOS	Sun-3/60 (under SunOS	Concurrent	Concurrent Computer	Same as Host
oD	Version 4.0.3, with CAIS	Version 4.0.3)	Computer	Corporation Series 6000	
ATO SWG on APSE	Version 5.5D)		Corporation	(MC88030, with Super	
ompiler for			C3 Ada, Version	Lightning Floating Point) &	
un3/SunOS,			1.1	Series 5000 (MC88020, with	
ersion			(BASE	Lightning Floating Point)	
3C1.82-02			#901130W1.11107)	(under RTU Versions 5.0A,	
911016(1.11233)				5.0B, 5.0C & 6.0)	
mm / Garman	VAV 2250 6-1-1-1840 V1	MAY aggs to design to the	0.0		Ones of the st
	VAX 8350 (under VMS Version	VAX 8350 (under VMS Version		Concurrent Computer	Same as Host
	5.4-1, with CAIS Version	5.4-1)	•	Corporation 3280MPS (under	
	5.5E)		•	OS/32 Version R08-03.2)	
ompiler for			C3 Ada Version		
X/VMS, Version			R03-00V		
1.82-02			(#901130W1.11108)		
911118 1.11238)					
			*Validated by Registration		
	VAX 8350 (under VMS Version	Motorola MVME133XT (MC88020)		Concurrent Computer	Any Host
				Corporation Series 3200:	
oD .	5.4-1, with CAIS Version	(bare machine)		•	
oD ATO SWG on APSE		(bare machine)	Corporation	3200 MPS, 3203, 3205, 3210,	
oD ATO SWG on APSE omplier for	5.4-1, with CAIS Version	(bare machine)	Corporation	•	
oD ATO SWG on APSE omplier for UX/VMS to	5.4-1, with CAIS Version	(bare machine)	Corporation C3 Ada, Version R03-00V	3200 MPS, 3203, 3205, 3210,	
oD ATO SWG on APSE ompiler for UX/VMS to C88020, Version	5.4-1, with CAIS Version	(bare machine)	Corporation C3 Ada, Version R03-00V	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP,	
NO NG on APSE omplier for X/VMS to C88020, Version MI.82-02	5.4-1, with CAIS Version	(bare machine)	Corporation C3 Ada, Version R03-00V (BASE	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS,	
DOD ATO SWG on APSE compiler for UX/VMS to C88020, Version 3M1.82-02	5.4-1, with CAIS Version	(bare machine)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108)	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under	
oD ATO SWG on APSE omplier for UX/VMS to C88020, Version 3M1.82-02 92030811.11248)	5.4-1, with CAIS Version 5.5E)		Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108)	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2)	
ATO SWG on APSE omplier for X/VMS to D88020, Version 3M1.82-02 920306(1.11248)	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108)	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2)	Same as Host
DO TO SWG on APSE omplier for X/VMS to C88020, Version SM1.82-02 82030811.11248)	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS		Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS	Same as Host
NTO SWG on APSE compiler for X/VMS to D88020, Version DM1.82-02 B20306I1.11248) Dys / German DO NTO SWG on APSE	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	Same as Host
ATO SWG on APSE complier for X/VMS to D88020, Version DM1.82-02 92030611.11248) DD DO ATO SWG on APSE complier for	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230XP, 3250XP, 3230MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS	Same as Host
NTO SWG on APSE INTO SWG on APSE INTERPRET FOR INTO SWG on APSE	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	Same as Host
DITO SWG on APSE omplier for X/VMS to C88020, Version SM1.82-02 8203081.11248) Bys / German SD OTTO SWG on APSE omplier for major for SWG on APSE omplier for major SWG on SWG o	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	Same as Host
DD SWG on APSE omplier for X/VMS to C88020, Version CM1.82-02 92030611.11248) Bys / German CD CMTO SWG on APSE omplier for ins/SunOS to C88020, Version CM1.82	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	Same as Host
ATO SWG on APSE compiler for VX/VMS to C88020, Version CM1.82-02 920306(1.11248) sys / German CM CSWG on APSE compiler for ins/SunOS to C88020, Version ICM1.82	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	
ATO SWG on APSE compiler for VX/VMS to C88020, Version CM1.82-02 920306(1.11248) sys / German CM CSWG on APSE compiler for ins/SunOS to C88020, Version ICM1.82	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109) *Validated by Registration	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, Micro4, and Micro5 (under OS/32 Versions Fi08-03, R08-03.1 & Fi08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU	Same as Host Any Host
oD ATO SWG on APSE omplier for UX/VMS to C88020, Version CM1.82-02 820306(1.11248) sys / German oD ATO SWG on APSE omplier for un3/SunOS to C88020, Version ICM1.82 920728(1.11281)	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS	Motorola MVME133XT (MC88020)	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109) *Validated by Registration Concurrent	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3260MPS, 3260MPS, MIcro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1)	
DD SWG on APSE compiler for CX/VMS to C88020, Version SM1.82-02 S20306I1.11248) Bys / German SD SWG on APSE compiler for Ins/SunOS to C88020, Version CM1.82 S20728I1.11261) LAS ELEKTRONIK	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.5E) VAX 6000-410 (under VMS	Motorola MVME133XT (MC88020) (bare machine) ATLAS ELEKTRONIK GmbH MPR	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109) *Validated by Registration Concurrent Computer	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MP, 3250MPS, 3250MPS, 3250MPS, 3250MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1) Concurrent Computer Corporation 8400 (mips R3000/3010) (under RTU Version 5.1)	
DO SWG on APSE omplier for VX/VMS to C88020, Version CM1.82-02 92030611.11248) Bys / German CD CROSWG on APSE omplier for carrier for CM1.82 92072811.11281) LAS ELEKTRONIK on CMT CAS	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.5E)	Motorola MVME133XT (MC88020) (bare machine) ATLAS ELEKTRONIK GmbH MPR 2300 (under MOS 2300,	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109) *Validated by Registration Concurrent Computer Corporation	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3280MPS, 3280MPS, 3280MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1) Concurrent Computer Corporation Series 8000 (all models) (under RTU	
ATO SWG on APSE compiler for the compile	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.5E) VAX 6000-410 (under VMS	Motorola MVME133XT (MC88020) (bare machine) ATLAS ELEKTRONIK GmbH MPR	Corporation C3 Ada, Version R03-00V (BASE #801130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#801130W1.11109) *Validated by Registration Concurrent Computer Corporation C3 Ada, Version C3 Ada, Version	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MP, 3250MPS, 3250MPS, 3250MPS, 3250MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1) Concurrent Computer Corporation 8400 (mips R3000/3010) (under RTU Version 5.1)	
DO SWG on APSE compiler for X/VMS to C88020, Version SM1.82-02 9203061.11248) sys / German SD SWG on APSE compiler for Insi/SunOS to C88020, Version CM1.82 92072811.11261) LAS ELEKTRONIK INDH	5.4-1, with CAIS Version 5.5E) Sun-3/60 (under SunOS Version 4.0.3, with CAIS Version 5.5E) VAX 6000-410 (under VMS	Motorola MVME133XT (MC88020) (bare machine) ATLAS ELEKTRONIK GmbH MPR 2300 (under MOS 2300,	Corporation C3 Ada, Version R03-00V (BASE #901130W1.11108) Concurrent Computer Corporation C3 Ada Version 1.0v (#901130W1.11109) *Validated by Registration Concurrent Computer Corporation	3200 MPS, 3203, 3205, 3210, 3220, 3230, 3250, 3230MPS, 3280MPS, 3280MPS, 3280MPS, Micro4, and Micro5 (under OS/32 Versions R08-03, R08-03.1 & R08-03.2) Concurrent Computer Corporation 8400 (MIPS R3000/3010) (under RTU Version 5.1) Concurrent Computer Corporation Series 8000 (all models) (under RTU	

& CERTIFICATE	ER HOST MACHINE & (OS)	TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (O
Ministration of his Day Intention			M/sWdstad by Decistration		
Validated by Registration Concurrent	n Concurrent Computer	Same as Host	"Validated by Registration CONVEX Computer	1 CONVEX C120, C201, C202,	Any Host
	· · · · · · · · · · · · · · · · · · ·	Salle es Fiost	Corporation	C210, C220, C230, C240,	Ally Floor
Computer	Corporation Series 8000		•		
Corporation	(MIPS R3000/3010) (under		CONVEX Ada,	C210i, C220i & C230i (under	
3 Ada, Version	RTU Versions 5.1A, 5.1B &		Version 2.0	ConvexOS, Versions 8.1 and	
1.0	6.0)		(BASE	9.0)	
BASE			#900910W1.11027)		
P901130W1,11109)					
			*Validated by Registration	1	
Validated by Registration	n .		CONVEX Computer	CONVEX C120, C201, C202,	Each Host, self-targett
Concurrent	Concurrent Computer	Same as Host	Corporation	C210, C210i, C220, C220i,	
Computer	Corporation Series 8000		CONVEX Ada,	C230, C230i, C240, C3210,	
Corporation	(R3000/3010), all models		Version 2.0	C3220, C3230, C3240, C3410,	
3 Ada, Version	(under RTU Versions 5.1A,		(BASE	C3420, C3430, C3440, C3450,	
2.0p	5.18 & 6.0)		#900910W1,11027)	C3480, C3470, C3480, C3810,	
BASE	0.10 a c.oj		, , , , , , , , , , , , , , , , , , , ,	C3820, C3830, C3840, C3850,	
				C3880, C3870, C3880 (under	
F901130W1.11109)					
				ConvexOS versions 8.1, 9.0,	
Validated by Registration				9.1 & 10.0)	
Concurrent	Concurrent Computer	Any Host			
Computer	Corporation Series 6000		*Validated by Registration		0
Corporation	(MIPS R3000/3010) (under		CONVEX Computer	CONVEX C120, and C2xx,	Same as Host
3 Ada, Version	RTU Version 6.0)		Corporation	C32xx, C34xx, & C38xx	
2.0b			CONVEX Ada,	computer series (under	
BASE			Version 2.1	ConvexOS, Versions 8.1,	
F901130W1.11109)			(BASE	9.0, 9.1, 10.0, & 10.1; and	
,			#900910W1,11027)	ConvexOS/Secure Versions	
Concurrent	Concurrent Computer	Same as Host		9.5 & 10.0)	
Computer	Corporation 6650 with	Carro as 1 rock		5.2 d 10.5 /	
Corporation			Omy Beasanh	Cray X-MP/EA (under UNICOS	Same as Host
	MC88882 Floating Point		Cray Research,		Saille as I lost
3 Ada Version	(under RTU Version 5.0C)		inc.	Release 5.0)	
.1v			Cray Ada Compller		
#901130W1.11110)			Release 2.0		
			(#901112W1.11116)		
Validated by Registration					
Concurrent	Concurrent Computer	Any Host	*Validated by Registration		
Computer	Corporation Series 6000		Cray Research,	CRAY X-MP & X-MP/EA, all	Each Host, self-targete
Corporation	with an MC88882 fpu, and		Inc.	models (under UNICOS	
Ada, Version	Series 5000 with an MC68881		Cray Ada Compiler	Releases 5.1, 6.0 & 6.1)	
.1v	fpu (ali models) (under RTU		Release 2.0		
BASE	Versions 5.0A, 5.0B & 5.0C)		(BASE		
901130W1.11110)			#901112W1.11116)		
Validated by Registration			*Validated by Registration		
Concurrent	Concurrent Computer	Same as Host	Cray Research,	X-MP/EA (all models) (under	Same as Host
Computer	Corporation Series 6000		inc.	UNICOS Release 6.1)	
			Cray Ada Compiler		
Corporation	(MC88030/MC88882) & Series		Oray Aug Compiler		
	(MC88030/MC88882) & Series 5000 (MC88020/MC88881)		3.0		
Corporation	· · · · · · · · · · · · · · · · · · ·		-		
Corporation	5000 (MC88020/MC88881)		3.0 (BASE		
Corporation ☆ Ada, Version .1	5000 (MC88020/MC88881) (under RTU Versions 5.0A,		3.0		
Corporation 3 Ada, Version .1 BASE	5000 (MC88020/MC88881) (under RTU Versions 5.0A,		3.0 (SASE #901112W1.11116)	Cray Y-MP (under UNICOS	Same as Host
Corporation 3 Ada, Version .1 BASE	5000 (MC88020/MC88881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)		3.0 (BASE	Cray Y-MP (under UNICOS Release 5.0)	Same as Host
Corporation 33 Ada, Version .1 BASE P901130W1.11110)	5000 (MC68020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 8.0)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, Inc.		Same as Host
Corporation 23 Ada, Version .1 BASE 9901130W1.11110) Validated by Registration Concurrent	5000 (MC68020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler		Same as Host
Corporation 23 Ada, Version .1 BASE 9901130W1.11110) Validated by Registration Concurrent Computer	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, inc. Cray Ada Compiler Release 2.0		Same as Host
Corporation 23 Ada, Version .1 BASE 901130W1.11110) Validated by Registration concurrent computer corporation	5000 (MC88020/MC88881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU	Any Host	3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler		Same as Host
Corporation 3 Ada, Version .1 BASE BOSE BOSE BOSE BOSE BOSE BOSE BOSE BO	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler Release 2.0 (#901112W1.11117)	Release 5.0)	Same as Host
corporation 3 Ada, Version .1 BASE 1901130W1.11110) Validated by Registration concurrent computer composition 3 Ada, Version 2 & 2.0b	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU	Any Host	3.0 (BASE #901112W1.11118) Cray Research, Inc. Cray Ada Compiler Release 2.0 (#901112W1.11117)	Release 5.0)	
corporation 3 Ada, Version 1 BASE 9901130W1.11110) Validated by Registration concurrent computer computer 3 Ada, Version 2 & 2.0b BASE	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU	Any Host	3.0 (BASE #901112W1.11116) Cray Research, inc. Cray Ada Compiler Release 2.0 (#901112W1.11117) "Validated by Registration Cray Research,	Release 5.0) Cray Y-MP, all models	
Corporation 3 Ada, Version .1 BASE BOSE BOSE BOSE BOSE BOSE BOSE BOSE BO	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU	Any Host	3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler Release 2.0 (#901112W1.11117) *Validated by Registration Cray Research, Inc.	Release 5.0) Cray Y-MP, all models (under UNICOS Releases 5.1,	
Corporation 23 Ada, Version .1 BASE 9901130W1.11110) Validated by Registration concurrent Corporation 23 Ada, Version .2 & 2.0b BASE 9901130W1.11110)	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) 1 Concurrent Computer Corporation Series 7000 (MC88040) (under RTU Version 6.1)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, inc. Cray Ada Compiler Release 2.0 (#901112W1.11117) "Validated by Registration Cray Research, inc. Cray Ada Compiler	Release 5.0) Cray Y-MP, all models	
Corporation 33 Ada, Version .1 BASE 1901130W1.11110) Validated by Registration Concurrent Computer Corporation 33 Ada, Version .2 & 2.0b BASE 1901130W1.11110) Validated by Registration	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU Version 6.1)		3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler Release 2.0 (#601112W1.11117) *Validated by Registration Cray Research, Inc. Cray Ada Compiler Release 2.0	Release 5.0) Cray Y-MP, all models (under UNICOS Releases 5.1,	
Corporation 23 Ada, Version .1 BASE 9901130W1.11110) Validated by Registration concurrent Corporation 23 Ada, Version .2 & 2.0b BASE 9901130W1.11110)	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) 1 Concurrent Computer Corporation Series 7000 (MC88040) (under RTU Version 6.1)	Any Host	3.0 (BASE #901112W1.11116) Cray Research, inc. Cray Ada Compiler Release 2.0 (#901112W1.11117) "Validated by Registration Cray Research, inc. Cray Ada Compiler	Release 5.0) Cray Y-MP, all models (under UNICOS Releases 5.1,	
corporation 3 Ada, Version .1 BASE 901130W1.11110) Validated by Registration concurrent computer composition 3 Ada, Version .2 & 2.0b BASE 901130W1.11110) Validated by Registration concurrent	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU Version 6.1)		3.0 (BASE #901112W1.11116) Cray Research, Inc. Cray Ada Compiler Release 2.0 (#601112W1.11117) *Validated by Registration Cray Research, Inc. Cray Ada Compiler Release 2.0	Release 5.0) Cray Y-MP, all models (under UNICOS Releases 5.1,	
corporation 3 Ada, Version .1 BASE 9901130W1.11110) Validated by Registration concurrent computer corporation 3 Ada, Version .2 & 2.0b BASE 9901130W1.11110) Validated by Registration concurrent computer computer	5000 (MC88020/MC68881) (under RTU Versions 5.0A, 5.0B, 5.0C & 6.0) Concurrent Computer Corporation Series 7000 (MC88040) (under RTU Version 6.1) Concurrent Computer		3.0 (BASE #901112W1.11118) Cray Research, inc. Cray Ada Compiler Release 2.0 (#901112W1.11117) *Validated by Registration Cray Research, inc. Cray Ada Compiler Release 2.0 (BASE	Release 5.0) Cray Y-MP, all models (under UNICOS Releases 5.1,	
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	R HOST	TARGET	VENDOR, COMPILER		TARGET
& CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)	& CERTIFICATE #	MACHINE & (OS)	MACHINE & (O
ray Research,	CRAY-2/4-128 (under UNICOS	Same as Host	*Validated by Registration		
ic.	Release 6.1)		DDC international	DEC VAX-11, VAXserver,	Intel ISBC 86/35 (bare
ray Ada Compiler			A/8	VAXstation, MicroVAX, VAX	machine)
elease 2.0			DACS VAX/VMS to	8000, VAX 8000 & VAX 9000	
F911006W1.11223)			8088 Bare Ada	Series of computers,	
Intidated by Begintration			Cross Compiler	Including Raytheon Military	
/alidated by Registration ray Research,	CRAY-2 (ali models) (under	Each Most self-terreted	System with Rate Monotonic	VAX computer model 880 (under VMS Version 5.3)	
c.	UNICOS Release 6.1)	Each Host, self-targeted	Scheduling,	(under vivis version 5.5)	
ray Ada Compiler	ONICOS Pielease 6.1)		Version 4.6		
Hease 2.0			(BASE		
ASE			#90112981.11077)		
911006W1.11223)					
			*Validated by Registration		
alidated by Registration		Park Mark and Accept d	DDC International	DEC VAX-11, VAXserver,	Intel ISBC 288/12 (ben
zy Research, c.	CRAY-2/4-128 (all models)	Each Host, self-targeted	A/S DACS VAX/VMS to	VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000	machine)
ay Ada Compiler 3.0	(under UNICOS Release 6.1)		80288 Bare Ada	Series of computers,	
ASE			Cross Compiler	Including Raytheon Military	
911006W1.11223)			System with Rate	VAX computer model 880	
			Monotonic	(under VMS Version 5.3)	
OC International	VAX 8530 (under VMS Version	Same as Host	Scheduling,	The second second	
'S	5.3)		Version 4.6		
CS VAX/VMS	•		(BASE		
ative Ada Compiler			#901129S1.11077)		
stem, Version 4.6					
90112951.11050)			*Validated by Registration	י	
			DDC International	DEC VAX-11, VAXserver,	Intel ISBC 286/12 in
C international	MicroVAX 3100 (under VMS	Motorola MVME133 board	A/S	VAXstation, MicroVAX, VAX	Protected Mode (bare
S	Version 5.3)	(68020/68881) (bare machine)	DACS VAX/VMS to	8000, VAX 8000 & VAX 8000	machine)
VCS VAX/VMS to 68020			80286 PM Bare Ada	Series of computers,	
re Cross Compiler			Cross Compiler	Including Raytheon Military	
stem, Version 4.6			System with Rate	VAX computer model 860	
901129S1.11051)			Monotonic	(under VMS Version 5.3)	
C International	VAV 8520 (md-s)840 V-ml-s	Int - 1 1000 000 (04 6	Scheduling,		
S	VAX 8530 (under VMS Version 5.3)	Intel ISBC 386/21 (bare machine)	Version 4.8 (BASE		
ICS VAX/VMS to	3.3)	macrimej	#901129S1.11077)		
386 PM Bare Ada			V60112931.11077)		
oss Compiler			DDC International	VAX 8530 (under VMS Version	Intel ISBC 386/21 (bank
stem, Version 4.6			A/S	5.3)	machine)
901129S1.11074)			DACS VAX/VMS to	,	,
			80386 Bare Ada		
C International	ICL DRS300 (under DRS/NX,	Same as Host	Cross Compiler		
	Version 3.2 (UNIX System		System with Rate		
CS 80388 UNIX V	V/386 release 3.2))		Monotonic		
a Compiler			Scheduling,		
stem, Version 4.6			Version 4.6		
901129\$1.11075)			(#901129S1.11078)		
C International	Sun-3/60 (under SunOS.	Same as Host	DDC International	VAX 8530 (under VMS Version	Intel ISBC 186/03 (barr
	Version 4.0_Export)		A/S	5.3)	machine)
CS Sun3/SunOS Native			DACS VAX/VMS to	•	•
a Compiler System,			80188 Bare Ada		
raion 4.8			Cross Compiler		
01 129S1.1 1076)			System, Version 4.6		
0.1.1			(#901129S1.11079)		
	VAX 8530 (under VMS Version	Intel ISBC 188/03 (bare			
	5.3)	machine)	*Validated by Registration		LA 1 1000 - 100 100 0
CS VAX/VMS to			DDC International	DEC VAX-11, VAXserver,	Intel ISBC 188/03 (ban
186 Bare Ada Ses Compiler			A/S	VAXstation, MicroVAX, VAX	machine)
			DACS VAX/VMS to 80186 Bare Ada	8000, VAX 8000 & VAX 9000 Series of computers,	
			Cross Compiler	including Raytheon Military	
stem with Rate			· ·	VAX computer model 860	
stem with Rate motonic				(under VMS Version 5.3)	
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stern with Rate photonic heduling, raion 4.6 901129S1.11077) alidated by Registration IC International S	VAXstation, MicroVAX, VAX	intel ISBC 186/03 (bare machine)	#901129S1.11079) *Validated by Registration DDC International A/S	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX	Intel ISBC 86/35 (bare machine)
stern with Rate notonic heduling, sion 4.6 201129S1.11077) alidated by Registration C International S CS VAX/VMS to	VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000		*901129S1.11079) *Validated by Registration DDC International A/S DACS VAX/VMS to	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000	
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stern with Rate notonic heduling, raion 4.6 901129S1.11077) alidated by Registration C international S CS VAX/VMS to 186 Bare Ada bee Compiler stern with Rate enotonic	VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers, including Raytheon Military		*901129S1.11079) *Validated by Registration DDC International A/S DACS VAX/VMS to 8066 Bare Ada Cross Compiler System, Version 4.6 (BASE	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers, Including Raytheon Military	
stern with Rate notonic heduling, sion 4.6 301129S1.11077) alldated by Registration C International S CS VAX/VMS to 186 Bare Ada use Compiler stern with Rate notonic	VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 8000 Series of computers, including Raytheon Military VAX computer model 880		*Validated by Registration DDC International A/S DACS VAX/VMS to 8086 Bare Ada Cross Compiler System, Version 4.6	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers, Including Raytheon Military VAX computer model 880	
tern with Rate notonic seduling, slon 4.6 (01129S1.11077) Ilidated by Registration C International (1129S1.11077) S VAX/VMS to 86 Bare Ada (1129S1.11079) Term with Rate notonic	VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 8000 Series of computers, including Raytheon Military VAX computer model 880		*901129S1.11079) *Validated by Registration DDC International A/S DACS VAX/VMS to 8066 Bare Ada Cross Compiler System, Version 4.6 (BASE	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers, Including Raytheon Military VAX computer model 880	

ENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
			1		,
alidated by Registration	1		DDC-I, Inc.	SPARCatation 2 (under	Same as Host
DC International	DEC VAX-11, VAXserver,	Intel ISBC 286/12 (bare	DACS Sun	SunOS, Version 4.1.1)	
/8	VAXstation, MicroVAX, VAX	machine)	SPARC/SunOS Native	,	
ACS VAX/VMS to	6000, VAX 6000 & VAX 9000	······································	Ada Compiler System,		
286 Bare Ada	Series of computers,		Version 4.6.1		
	•				
ross Compiler	Including Raytheon Military		(#920805S1.11285)		
stem, Version 4.6	VAX computer model 880		0001-11	All	1-1-1071111 070 17741
ASE	(under VMS Version 5.3)		DDC-Inter, Inc.	MicroVAX 3100 Cluster	InterACT MIL-STD-1750A
90112981.11079)			InterACT Ada	(under VMS 5.2)	Instruction Set Architecture
			1750A Compiler		Simulator Release 2.3 (bare
alidated by Registration	1		System, Release 3.5		machine simulation)
OC International	DEC VAX-11, VAXaerver,	Intel ISBC 286/12 in	(#910705S1.11191)		
'S	VAXstation, MicroVAX, VAX	Protected Mode (bare			
ACS VAX/VMS to	6000, VAX 8000 & VAX 9000	machine)	DDC-Inter, Inc.	MicroVAX 3100 Cluster	Lockheed Sanders STAR M
286 PM Bare Ada	Series of computers,		InterACT Ada MIPS	(under VMS 5.2)	R3000/R3010 Board (bare
ross Complier	Including Raytheon Military		Cross-Compiler		machine)
stem, Version 4.6	VAX computer model 880		System, Release 2.0		
ASE	(under VMS Version 5.3)		(#910705\$1.11192)		
901129S1.11079)	(and a relation only		(
			*Validated by Registration	1	
OC International	IDM DO /O Model CO CAA	Come as Most	DDC-Inter, Inc.		Lockheed Sanders STAR M
	IBM PS/2 Model 80-311	Same as Host		MicroVAX 3100 Cluster	
'S	(under LynxOS 386/PS2,		InterACT Ada MIPS	(under VMS 5.2)	R3000/R3010 Board (bare
ACS 80386 DMS/OS	Version 2.0A)		Cross-Compiler		machine)
la Compiler			System, Release 2.1		
stem, Version 4.6			(BASE		
901129\$1.11112)			#910705S1.11192)		
			·		
OC International	VAX 8530 (under VMS Version	Tadpole Technology pic	Digital Equipment	VAX 8800 (under VMS Version	Same as Host
'S	5.3)	TP860M (bare machine)	Corporation	5.4)	
ACS VAX/VMS to	,	(VAX Ada, Version 2.2	•	
860 Bare Ada			(#901109S1.11053)		
oss Compiler			(**************************************		
rstem, Version 4.6.1			*Validated by Registration		
					Amy Mont
910502S1.11158)			Digital Equipment	DEC VAX-11, VAXserver,	Any Host
O 1-1	0 - 0//0 / - 1 - 0 - 00		Corporation	VAXstation, VAXII,	
OC International	Sun-3/50 (under SunOS	Motorola MVME143 board	VAX Ada Version	MicroVAX, VAX 4000, VAX	
S	Release 4.0_Export)	(88030/68882) (bare machine)	2.2	9000, VAX 8000 & VAX 9000	
NCS Sun-3/SunOS			(BASE	Series of computers (as	
68030 Bare Ada			#901109S1.11053)	supported); Ratheon	
oss Compiler			·	Military VAX Computer Model	
stem, Version				860; and Norden MilVAX	
3.4, MRI IEEE				Computer Model MilVAX II	
5 (BASIC MODE)				(under VMS Version 5.4)	
91050281.11159)				,	
			Digital Equipment	VAX 8800 (under VMS Version	MicroVAX II (under VAXELN
C International	Sun-3/50 (under SunOS	Motorola MVME143 board		5.4)	Version 4.1, using VAXELN
S	Release 4.0 Export)	(68030/68882) (bare machine)	VAX Ada, Version 2.2	⊶ -7,	Ada Version 2.2)
CS Sun-3/SunOS		(montocos) (nera mecuna)			HUE TOISIUII E.E.
			(#901109S1.11054)		
68030 Bare Ada Cross					
mpller System, Version			«Validated by Registration		
8.4, MRI IEEE			Digital Equipment	DEC VAX-11, VAXserver,	VAX 4000 Models 200 & 30
5 (SECURE_MODE)			•	VAXstation, VAXft,	VAX 6000 Series 200, 300 8
910502S1.11160)			VAX Ada Version	MicroVAX, VAX 4000, VAX	400; VAX 8200, 8250, 8500,
			2.2	6000, VAX 6000 & VAX 9000	8530, 8550, 8700, 8800 &
alidated by Registration			(BASE	Series of computers (as	8810; VAX-11/730 & /750;
IC-I, Inc.	VAX 8530 (under VMS Version	Intel ISBC 486/125 (bare	#901109\$1,11054)	supported); Ratheon	MicroVAX II, 2000, 3100,
CS VAX/VMS to	5.3)	machine)		Military VAX Computer Model	3300, 3400, 3500, 3600, 38
486 PM Bare Ada				860; and Norden MIIVAX	& 3900; VAXstation 2000,
oss Compiler				Computer Model MIIVAX II	3100, 3150, 3200, 3500 &
stem, Version 4.8				(under VMS Version 5.4)	II/GPX; VAXserver 3100, 33
ASE				(uncer two telefori 0.4)	3400, 3500, 3600, 3800, 39
101129S1.11074)					VAXserver 4000-300; VAXse
0112001.11074)					•
	MIDD MILED BY A TOP C	1 - 14 - 14 0 - 4 - 0 - 14 - 0			6000 Models 210, 220, 310
	MIPS M/120-5 (under RISC/os	Lockheed Sanders STAR MVP			320,410 & 420; Ratheon Mi
	Version 4.50)	R3000/R3010 Board (bare			VAX Computer Models 810
CS MIPS RISC/os	70101011 72001	machine)			Norden MilVAX Computer I
CS MIPS RISC/oe MIPS R3000	1010011 4.007	•			MIIVAX II, IVAX 620 & 630; \
CS MIPS RISC/ce MIPS R3000 re Ada Cross	version 420,	•			RTA; KA620-BA & KA600-M
IC-I, Inc. ICS MIPS RISC/ce MIPS R3000 ITE Ada Cross Implier System,	VOI 0011 1220 J				
CS MIPS RISC/os MIPS R3000 re Ada Cross mplier System,	V61801 1209				
CS MIPS RISC/ce MIPS R3000 re Ada Cross	V-10-0-1-1-2-0-1				300, 1000, 3200, 3300, 330
CS MIPS RISC/os MIPS R3000 re Ada Cross emplier System, lesse 2.1-18	V 100 1 100 1				300, 1000, 3200, 3300, 330 3400, 3500, 3600, 3800, 40
CS MIPS RISC/ce MIPS R3000 re Ada Cross mplier System, lease 2.1-18 320805S1.11283)		Integrated Device Technology			300, 1000, 3200, 3300, 330 3400, 3500, 3600, 3800, 40 Model 300, 8550, 8700, rtV
CS MIPS RISC/oe MIPS R3000 re Ada Cross mpiler System, lease 2.1-16 200805S1.11263)	DECstation 3100 (under	Integrated Device Technology			300, 1000, 3200, 3300, 330 3400, 3500, 3600, 3800, 40 Model 300, 8550, 8700, rtV/ 8000 Models 200, 300 & 40
CS MIPS RISC/os MIPS R3000 re Ada Cross mpiler System, lease 2.1-16 220805S1.11263) CC-I, Inc.		IDT7RS301 R3000/R3010 Board			300, 1000, 3200, 3300, 3300 3400, 3500, 3600, 3800, 400 Model 300, 8550, 8700, rtV/ 8000 Models 200, 300 & 40 Series and rtVAXstation 310
CS MIPS FISC/oe MIPS R3000 re Ade Cross rmpiler System, lease 2.1-16 a20805S1.11283) C-I, Inc. CS Cstation/ULTRDX	DECstation 3100 (under				300, 1000, 3200, 3300, 330 3400, 3500, 3800, 3800, 40 Model 300, 8550, 8700, 40 8000 Models 200, 300 & 40 Series and rfVAXstation 310 Models 30 & 38 (under VAX
CS MIPS RISC/oe MIPS R3000 re Ada Cross mpiler System, lease 2.1-16 320805S1.11263) C-I, Inc. CS Cstation/ULTRIX MIPS R3000	DECstation 3100 (under	IDT7RS301 R3000/R3010 Board			300, 1000, 3200, 3300, 3300 3400, 3500, 3800, 3800, 400 Model 300, 8550, 8700, rtV/ 8000 Models 200, 300 & 40 Series and rtVAXstation 310 Models 30 & 38 (under VAX Version 4.2, using VAXELN
CS MIPS RISC/oe MIPS R3000 re Ada Cross mpller System, lease 2.1-16 a20805S1.11263) C-I, Inc. CS Cetation/ULTRIX MIPS R3000 re Ada Cross	DECstation 3100 (under	IDT7RS301 R3000/R3010 Board			300, 1000, 3200, 3300, 3303 3400, 3500, 3600, 3800, 40 Model 300, 8550, 8700, rtV/ 8000 Models 200, 300 & 40
CS MIPS RISC/oe MIPS R3000 re Ade Cross mpiler System, lease 2.1-18 120805S1.11263) C-I, Inc. CS Catation/ULTRIX MIPS R3000	DECstation 3100 (under	IDT7RS301 R3000/R3010 Board			300, 1000, 3200, 3300, 3300 3400, 3500, 3800, 3800, 400 Model 300, 8550, 8700, rtV/ 8000 Models 200, 300 & 40 Series and rtVAXstation 310 Models 30 & 38 (under VAX Version 4.2, using VAXELN

VENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	WENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (OS)
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Validated by Registration	n		*Validated by Registration	1	
Digital Equipment	VAX 6000 Model 200, 300 &	VAX 6000 Model 200, 300 &	Encore Computer	Encore 91, 93, & 94 Series,	Any Host
Corporation	400 Series; VAX 8200, 8250,	400 Series; VAX 8200, 8250,	Corporation	all models (under UMAX 3.0)	
VAX Ada Version	8300, 8350, 8500, 8530,	8500, 8530, 8550, 8700, 8800	Parallel Ada		
2.2	8550, 8800, 8850, 8700,	& 8810; VAX-11/730 & /750;	Development		
(BASE	8800, 8810, 8820, 8830,	MicroVAX II, 2000, 3100,	System, Revision 2.0		
#901109\$1,11054)	8840, 8842, 8974 & 8978;	3300, 3400, 3500, 3600, 3600	(BASE		
•	VAX-11/730, /750, /780,	& 3900; VAXstation 2000,	#910130W1.11114)		
	/785; MicroVAX II, 2000,	3100, 3150, 3200, 3500 &	·		
	3100, 3300, 3400, 3500,	II/GPX; VAXserver 3100,	Encore Computer	Encore 91 Series Model	Encore 91 Series Model
	3800, 3800 & 3900;	3300, 3400, 3500, 3600,	Corporation	91-0340 (under UMAX 3.0)	91-0430 (under uMPX 1.0)
	VAXatation II, 2000, 3100	3802, 3800, 3900; VAXserver	Parallel Ada		
	series, 3200, 3500, 3520,	6000 Models 210 220, 310,	Development		
	3540 & 8000; VAXserver	320, 410 & 420; Ratheon	System, Revision 1.0		
	3100, 3300, 3400, 3600,	Military VAX Computer Models	(#910130W1.11115)		
	3800, 3802, 3800, 3900;	810 & 880; Norden Systems:			
	VAXserver 6000-310,	MII Vax II, IVAX 620 & 630;	*Validated by Registration	1	
	6000-410 & 6000-420;	VAX RTA; KA620-BA, rtVAX	Encore Computer	Encore 91 Series, all	Encore 91 Series, all mode
	Ratheon Military VAX	300, 1000, 3200, 3300, 3305,	Corporation	models (under UMAX 3.0)	(under microMPX 1.0)
	Computer Model 880 (under	3400, 3500, 3800, 3800,	Perallel Ada		
	VMS Version 5.4)	8550, 8700, rtVAX 6000 Model 200,	Development		
	•	300 & 400 Series & rtVAXstation 3100	System, Revision 1.0		
		Models 30 & 38 (under VAXELN	(BASE		
		Version 4.1 using VAXELN Ada Version 2.2)	#910130W1.11115)		
			*Validated by Registration		
Digital Equipment	DECetation 5000 Model 200	Same as Host	Encore Computer	Encore 91 Series, all	Encore 91 Series, all mode
Corporation	(under ULTRIX 4.2)		Corporation	models (under UMAX 3.0)	(under microMPX 1.0 &
DEC Ada, Version 1.0	,		Parallel Ada		microARITE 1.0)
#911025S1.11226)			Development		
			System, Revision 2.0		
Validated by Registration	1		(BASE		
Digital Equipment	DECatation 2100, 3100,	Any Host	#910130W1.11115)		
Corporation	3100s, 5000 Models 120/125,				
DEC Ade, Version	120/125CX, 120/125PXG,		GSE Gesellschaft fur	MIPS M/120 RISComputer	Same as Host
1.0	120/125PXG TURBO, 200,		Software-Engineering	(under UMIPS 4.51)	
BASE	200CX, 200PX, 200PXG,		mbH		
P911025S1.11226)	200PXG TURBO; and DECaystern	1	Meridian Ada,		
	3100, 5000 Model 200, 5100,		Version 4.1		
	5400, 5500, 5810, 5820,		(#910711W1.11180)		
	5830 & 5840 (under ULTRIX				
	Versions 4.0, 4.1 & 4.2)		GSE Gesellschaft für	IBM RISC System 6000/520	Same as Host
			Software-Engineer	(under AIX Version 3)	
Validated by Registration	1		ing mbH		
Digital Equipment	DEC DECetation 2100, 3100,	Any Host	Meridian Ada.		
Corporation	& 5000, and DECsystem 5000.		Version 4.1		
DEC Ada, Version	5100, 5400, 5500, 5800, &		(#910711W1.11182)		
.0	5900 series of computers		(00.0		
BASE	(under ULTRIX Versions 4.0,		GSE Gesellechaft	HP 9000 Series 400 Model	Same as Host
	4.1, 4.2, & 4.2A)			400T (under HP-UX 7.03)	CEIN AS I NO.
	4.1, 42, 0. 4204			4001 (GHOSH FIF-OX 7.00)	
-Systems/ECI	Tolorast Sternity (under	Same as Host	Software-Engineer		
	Tolerant Eternity (under TX, 5.4.0)	Came as nost	ing mbH		
olerant Ada Developmen			Meridian Ada,		
System, Version 6.0			Version 4.1		
#901003W1.11039)			(#910711W1.11184)		
			GSE Genellechaft	Concurrent Computer	Same as Host
DS-Scicon	Local Area VAX Cluster	Motorola MVME167 (68040)		The state of the s	CENTRE ES FICEL
				Corporation M8000 Model	
	(comprising VAXserver 3800,	(bare machine)		6450 (under RTU 5.0C)	
	MicroVAX 2000 (2), &		ing mbH		
	MicroVAX II machines)		Meridian Ada,		
/ersion 1.2 #921112N1.11297)	(under VMS 5.5)		Version 4.1 (#910711W1.11188)		
incore Computer	Encore 91 Series Model	Come on Mort	OSE Genelle - b - b	Consumed Corrector	Same as Host
•	91-0340 (under UMAX 3.0)	Same as Host		Concurrent Computer	Selling all FIGH
arailei Ada	e : (under UNDAX 3.U)			Corporation M8000 Model	
			•	8500 (under RTU 5.1A)	
Development			ing mbH		
ystem, Revision 1.0 #910130W1,11114)			Meridian Ada, Version 4.1		
			(#910711W1.11187)		
Validated by Registration					
		Any Host		Data General AVIION 400	Same as Host
	models (under UMAX 3.0)		fur	Model 402 (under DG/UX	
arallel Ada			Software-Engineer	4.31)	
evelopment			ing mbH		
ystem, Revision 1.0			Meridian Ada,		
BASE			Version 4.1		
910130W1,11114)			(#910711W1.11188)		

our Software-Engineer on mbH Acerdian Ada, fersion 4.1 #910711W1.11190) starts Corporation, Computer Systems Division starts Ada 5.1 #900918W1.11028) Validated by Registration starts Ada 5.1 BASE 1900918W1.11028) Validated by Registration starts Ada 5.1 BASE 1900918W1.11028)	HP 9000 Series 700 Model 720 (under HP-UX 8.01) Harris NH-4400 (under CX/UX 5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX 5.1)	Same as Host Same as Host Any Host	*Validated by Registration Harris Corporation, Computer Systems Division Harris Ada Compiler, Version 5.1 (BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems Division	NH-1200, NH-3400 & NH-3800 (under CX/UX 5.2, CX/RT 5.2 & CX/SX 5.2)	Same as Host
or incomment of the composition	Harris NH-4400 (under CX/UX 5.1) Harris NH-4400 (under CX/UX 5.1)	Same as Host	Harris Corporation, Computer Systems Division Harris Ada Compiler, Version 5.1 (BASE #900018W1.11029) *Validated by Registration Harris Corporation, Computer Systems	NH-1200, NH-3400 & NH-3800 (under CX/UX 5.2, CX/RT 5.2 & CX/SX 5.2)	Same as Host
Software-Engineer ng mbH Aeridian Ada, (craion 4.1 #810711W1.11180) darris (corporation, Computer Systems Division tarris Ada 5.1 #800918W1.11028) Validated by Registration tarris Ada 5.1 BASE 1800918W1.11028) Validated by Registration tarris Ada 5.1 BASE 1800918W1.11028)	Harris NH-4400 (under CX/UX 5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		Corporation, Computer Systems Division Harris Ada Compiler, Version 5.1 (BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems	(under CX/UX 5.2, CX/RT 5.2 & CX/SX 5.2) n Harris NH-1200, NH-3400 &	Saline as Proce
ng mbH Aeridian Ada, fersion 4.1 #910711W1.11190) farris Corporation, Computer Systems Consoliants Corporation Farris Ada 5.1 #800018W1.11028) Validated by Registration farris Ada 5.1 BASE 1900018W1.11028) Validated by Registration farris Ada 5.1 BASE 1900018W1.11028) Validated by Registration farris Ada 5.1 Corporation, farris Ada 5.1 Corporation, farris Ada 5.1 Corporation, farris Ada 5.1 Corporation, farris Corporation, farris Corporation, farris Corporation, farris Corporation, formputer Systems Existence Corporation, formputer Systems Existence Corporation, formputer Systems Existence Corporation, formputer Systems	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		Computer Systems Division Harris Ada Compiler, Version 5.1 (BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems	& CX/SX 5.2) n Harris NH-1200, NH-3400 &	
Aeridian Ada, (ersion 4.1 #810711W1.11190) darris Corporation, Computer Systems Division tarris 46 5.1 #800918W1.11028) Validated by Registration tarris Corporation, Computer Systems Division tarris Ada 5.1 BASE #800918W1.11028) Validated by Registration tarris Corporation, Computer Systems Division tarris Ada 5.1 BASE Corporation, Computer Systems Division tarris Corporation, Corporation, Corporation, Computer Systems	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		Division Harris Ada Compiler, Version 5.1 (BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems	n Harris NH-1200, NH-3400 &	
dersion 4.1 #910711W1.11190) tarris Corporation, Computer Systems Division farris Ada 5.1 #900918W1.11028) Validated by Registration farris Ada 5.1 BASE #900918W1.11028) Validated by Registration farris Ada 5.1 BASE #900918W1.11028)	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		Harris Ada Compiler, Version 5.1 (BASE #900018W1.11029) *Validated by Registration Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
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darris Corporation, Computer Systems Division Iarris Ada 5.1 #800918W1.11028) Validated by Registration Iarris Computer Systems Division Iarris Ada 5.1 BASE 1900918W1.11028) Validated by Registration Iarris Corporation, Corporation, Corporation, Computer Systems Division	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		5.1 (BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
Corporation, Computer Systems Division ferris Ada 5.1 #800918W1.11028) Validated by Registration farris Corporation, Computer Systems Division farris Ada 5.1 BASE #800918W1.11028) Validated by Registration farris Ada 5.1 Corporation, Computer Systems Division farris Ada 5.1 Corporation, Computer Systems Division Fig. 1000918W1.11028)	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		(BASE #900918W1.11029) *Validated by Registration Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
Corporation, Computer Systems Division ferris Ada 5.1 #800918W1.11028) Validated by Registration farris Corporation, Computer Systems Division farris Ada 5.1 BASE #800918W1.11028) Validated by Registration farris Ada 5.1 Corporation, Computer Systems Division farris Ada 5.1 Corporation, Computer Systems Division Fig. 1000918W1.11028)	5.1) Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX		*900918W1.11029) *Validated by Registration Harrise Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
Computer Systems Division fairis Ada 5.1 #800018W1.11028) Validated by Registration fairis Comporation, Computer Systems Division fairis Ada 5.1 BASE #8000918W1.11028) Validated by Registration fairis Corporation, Comporation, Comporatio	Harris NH-4400 (under CX/UX 5.1, CX/RT 5.1, OR CX/SX	Any Host	*Validated by Registration Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
Ovision terits Ada 5.1 #800818W1.11028) Validated by Registration terits Corporation, Computer Systems Ivision terits Ada 5.1 BASE 1900918W1.11028) Validated by Registration terits Corporation, Corporation, Computer Systems	5.1, CX/RT 5.1, OR CX/SX	Any Host	Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
#800e18W1.11028) Validated by Registration faria Corporation, Computer Systems Evision Earlis Ada 5.1 BASE 1900e18W1.11028) Validated by Registration faria Earlis Corporation, Computer Systems Evision	5.1, CX/RT 5.1, OR CX/SX	Any Host	Harris Corporation, Computer Systems	Harris NH-1200, NH-3400 &	
Validated by Registration tarris Corporation, Computer Systems Division Larris Ada 5.1 BASE 1900918W1.11028) Validated by Registration Larris Incorporation, Computer Systems Division	5.1, CX/RT 5.1, OR CX/SX	Any Host	Computer Systems		Any Host
darts Corporation, Computer Systems Division Larts Ada 5.1 BASE P800918W1.11028) Validated by Registration Larts Corporation, Corporation, Corporation	5.1, CX/RT 5.1, OR CX/SX	Any Host		NH-3800 (under CX/UX 5.3,	
darts Corporation, Computer Systems Division Larts Ada 5.1 BASE P800918W1.11028) Validated by Registration Larts Corporation, Corporation, Corporation	5.1, CX/RT 5.1, OR CX/SX	Any Host	Division	CX/RT 5.3 & CX/SX 5.3)	
Corporation, Computer Systems Wislon BASE BO0918W1.11028) Validated by Registration farris Corporation, Computer Systems	5.1, CX/RT 5.1, OR CX/SX	Any Host	DITIBION		
Computer Systems Avision tarris Ada 5.1 BASE 9000918W1.11028) Validated by Registration tarris corporation, computer Systems			Harris Ada 5.1.1		
Ovision taris Ada 5,1 BASE 1900918W1.11028) Validated by Registration taris corporation, Computer Systems	5.1)		(BASE		
tarris Ada 5.1 BASE 900018W1.11028) Validated by Registration tarris Corporation, Computer Systems			#900918W1.11029)		
BASE 1900918W1.11028) Validated by Registration farms Corporation, Computer Systems			2000		
Page 18W1.11028) Validated by Registration farms (arms (corporation, (computer Systems (condition)			*Validated by Registration		Ame Mark
Validated by Registration farris (Corporation, Computer Systems (Corporation)			Harris	Harris NH-1200, NH-3400, &	Any Host
larris (Corporation, (Computer Systems Ovision			Corporation,	NH-3800 (under CX/UX 6.1,	
larris (Corporation, (Computer Systems Ovision			Computer Systems	CX/RT 6.1, & CX/SX 6.1)	
Corporation, Computer Systems Ovision	Hamis Bill 4400 / OV /I N	Same as Hard	Division		
Computer Systems Ovision	Harris NH-4400 (under CX/UX	Same as Host	Harris Ada Compiler 5 1 1		
Olvision	5.2, CX/RT 5.2 & CX/SX 5.2)		Compiler 5.1.1		
			•		
iarris Ada			#900918W1.11029)		
Compiler, Version			Hewlett-Packard	DN4500 (under Domain/OS	Same as Host
.1			Co./Apollo	SR10.3)	CE III CE I IICC
BASE			Systems Division	G.110.27	
900918W1.11028)			Domain Ada V6.0m		
,			(#910411W1.11137)		
Validated by Registration			,		
larris I	Harris NH-4400 & NH-4800	Any Host (using either	Hewlett-Packard	DN10000 (under Domain/OS	Same as Host
Corporation,	(under CX/UX 5.3, CX/RT 5.3	Harris Ada Run-time System	Co./Apolio	SR10.3.p)	
computer Systems 8	& CX/SX 5.3)	or ARMS Run-time System)	Systems Division		
Nvision			Domain Ada V6.0p		
lamis Ada 5.1.1			(#910411W1.11138)		
BASE					
900918W1.11028)			Hewlett-Packard	HP 9000 Series 300 Model	Same as Host
Validated by Depletantian			Company	370 (under HP-UX, Version	
Validated by Registration larris	Allel 4400 B NICL 4000 Avender	American funtamental	HP 9000 Series	A.07.00)	
	NH-4400 & NH-4800 (under	Any Host (using either	300 Ada Compiler,		
	CX/UX 6.1, CX/RT 6.1, &	Harris Ada Run-time System	Version 5.35		
Nvision	CX/SX 6.1)	or ARMS Run-time System)	(#901022W1.11049)		
larris Ada			Walidated by Depletentles		
complier 5.1.1			*Validated by Registration Hewlett-Packard	HP 9000 Series 300 & 400,	Any Host
BASE			Company	all models (under HP-UX,	raily From
900918W1.11028)			HP 9000 Series	Version A.B7.03)	
			300 Ada Compiler.		
Validated by Registration			Version 5.35		
	NH-4400, NH-4800, & NH-5800	Any Host (using either	(BASE		
	under CX/UX 6.2, CX/RT	Harris Ada Run-time System	#901022W1.11049)		
	3.2, & CX/SX 6.2)	or ARMS Run-time System)			
ivision			*Validated by Registration	1	
larris Ada			Hewlett-Packard	HP 9000 Series 300 & 400,	Any Host from the same
compiler 5.1.1			Company	all Models (under HP-UX,	Series, under the same
BASE			HP 9000 Series	Versions A.B7.00 (release	version
900918W1.11028)			300 Ada Compiler,	7.0), A.B7.03 (release	
norte .	demis bild 2000 tond - out time	Pama as Hard	Version 5.35t	7.3), A.B7.05 (release 7.5)	
	Harris NH-3800 (under CX/UX	Same as Host	(BASE	& A.B8.00 (release 8.0), as	
computer Systems	5.1)		#901022W1.11049)	supported)	
ivision			IBM Canada, Ltd.	RISC System/6000 model	Same as Host
larris Ada 5.1			ADX Ada/6000	7013-530 (under AIX 3.1)	
F900918W1.11029)			Release 2,		
			Preliminary		
Validated by Registration			Version		
	tалтів NH-1200, NH-3400 &	Any Host	(#901127W1,11085)		
	NH-3800 (under CX/UX 5.1,	,	(2.55) (2.77)		
	CX/RT 5.1, OR CX/SX 5.1)		*Validated by Registration	1	
•			IBM Canada, Ltd.	RISC System /6000 models	Any Host
computer Systems (AIX Ada/8000	7013-320, -520, -530, -540,	,
			•		
computer Systems (Release 2.0	-550, -730 & -930 (under	

ENDOR, COMPI		TARGET	VENDOR, COMPILEI		TARGET
& CERTIFICATE	# MACHINE & (OS)	MACHINE & (OS)	& CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
Validated by Registrat		A	"Validated by Registratio		0
BM Canada, Ltd.	RISC System/6000 models	Any Host, running same AIX	International	IBM 3090 (under VM/SP	Same as Host
IX Ada/8000	7013-320, -520, -530, -540,	version as Host	Business Machines	Release 6.0 HPO 60)	
leiesse 2.2	-550, -730, & -930 (under		Corporation		
BASE	ADX 3.1 & 3.2)		IBM Ada/370,		
901127W1.11065)			Version 1.1.0		
•			(BASE		
BM Canada, Ltd.	RISC System/6000 model	Same as Host	#901128W1.11091)		
		Online as Floor	V-001125W1.11001)		
DX Ada/6000	7012-320 (under ADX 3.2)		474	1014 4004 (4 1000 DVA	
nternal			International	IBM 4381 (under MVS/XA	Same as Host
evelopment Version			Business Machines	Release 3.8)	
#920121W1.11234)			Corporation		
			IBM Ada/370,		
Validated by Registrat	ion		Version 1.1.0		
BM Canada, Ltd.	RISC System/6000, all	Any Host	(#901128W1.11092)		
X Ada/6000	models (under AIX 3.2)	very vees	(
ielease 3.0	models (under AD. 3.2)		Malidated by Designation	-	
			*Validated by Registration		0
BASE			International	IBM 3090 (under MVS/ESA	Same as Host
920121W1.11234)			Business Machines	Release 4.1)	
			Corporation		
BM Canada, Ltd.	RISC System/6000, model	Same as Host	IBM Ada/370,		
L Ada/6000	7013-520 (under AIX 3.2)		Version 1.1.0		
temal			(BASE		
evelopment Version			•		
			#901128W1.11092)		
F921119W1.11299)					
			International	IBM 3083 (under VM/SP HPO	Same as Host
itel Corporation	Intel I860 Station (under	Intel IPSC/880 (under	Business Machines	Release 5.0)	
PSC/880 Ada	Unix System V/880, Version	Ada-NX, Release 3.3.1)	Corporation		
elease 6.1.0(E)	4)	,	IBM Ada/370,		
nix System V/880	7)		Version 1.2.0		
elease 4 Version			(optimized)		
312425-0001			(#910612W1.11166)		
P820513W1.11255)					
			International	IBM 4381 (under MVS/ESA	Same as Host
termetrics,	IBM 3083 (under UTS 580	Same as Host	Business Machines	Release 3.1)	
c.	Release 1.2.3)		Corporation		
TS Ada Complier,	120		•		
			IBM Ada/370,		
ersion 302.03			Version 1.2.0		
P910425W1.11141)			(optimized)		
			(#910612W1.11167)		
termetrica,	Amdahl 5890/180E (under	Same as Host			
c.	MVS/XA Release 2.2)		international	IBM 3083 (under VM/SP HPO	Same as Host
termetrics MVS	,		Business Machines	Release 5.0)	
da Compiler,				140000 0.0	
ersion 7.0			Corporation		
			IBM Ada/370,		
910822W1.11170)			Version 1.2.0		
			(unoptimized)		
ternational	IBM 3083 (under VM/SP HPO	Same as Host	(#910612W1.11168)		
usiness Machines	Release 5.0)				
orporation			*Validated by Registration		
M Ada/370,					IDM 007 40 200 2000
			International	IBM 3090 (under VM/SP HPO	IBM 937x, 43xx, 308x, 3090
rsion 1.1.0			Business Machines	6.0)	ES/9000 processors (unde
901128W1.11091)			Corporation		VM/SP HPO 6.0)
			IBM Ada/370,		
alidated by Registration	on		Version 1.2.0		
ternational	IBM 3090 (under VM/ESA	Same as Host	(BASE		
usiness Machines	Release 1.0 ESA Feature)		•		
orporation			#910612W1.11168)		
M Ada/370,			*Validated by Registration	1	
ersion 1.1.0			International	IBM 3090 (under VM/XA 2.1)	IBM 937x, 43xx, 308x, 3090
ASE			Business Machines		ES/9000 processors (under
901128W1.11091)			Corporation		VM/XA 2.1)
			IBM Ada/370,		
alidated by Registration	on		Version 1.2.0		
ternational	IBM 3084 (under VM/ESA	Same as Host			
siness Machines		waite se i rest	(BASE		
	Release 1.0 370 Feature)		#910612W1.11168)		
orporation					
M Ada/370,			*Validated by Registration	1	
rsion 1.1.0			International	IBM 3084 (under VM/ESA	IBM 937x, 43xx, 308x, 3090
ASE			Business Machines	1.1.0 (370 Feature))	ES/9000 processors (unde
901128W1.11091)			Corporation	(0.0.0.00)	VM/ESA 1.1.0 (370 Feature
			·		THIT IS IS IN COLUMN
			IBM Ada/370,		•
alldated by Registration			Version 1.2.0		
lemational	IBM 3090 (under VM/XA	Same as Host	(BASE		
	Release 2.1)		#910812W1.11168)		
siness Machines	-				
orporation					
orporation M Ada/370,					
rporation					

VENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Validated by Registration			Irvine Compiler	HP 9000 Model 720 (under	Same as Host
International	IBM 3090 (under VM/ESA	IBM 937x, 43xx, 308x, 3090 &	Corporation	HP-UX Release 8.01)	
Business Machines	1.1.0 (ESA Feature))	ES/9000 processors (under	ICC Ada v7.0.0		
Corporation		VM/ESA 1.1.0 (ESA Feature))	(#910510W1.11145)		
BM Ada/370, Version 1.2 BASE	20		Invine Compiler	Sun 3/50 (under SunOS V4.0)	Same as Host
F910812W1.11168)			Corporation	3011 3/30 (dilicel 301003 44.0)	GEIR ES FRON
81001211111001			ICC Ada v7.0.0		
Validated by Registration	0		(#910510W1.11146)		
nternational	IBM 3090 (under VM/ESA	IBM 937x, 43xx, 308x, 3090 &	(55.65.61.11.11.46)		
Business Machines	1.1.1)	ES/9000 processors (under	Irvine Compiler	HP 9000 Model 400 (under	Same as Host
Corporation	,	VM/ESA 1.1.1)	Corporation	HP-UX Release 7.03)	
BM Ada/370, Version 1.2	2.0	, ,	ICC Ada v7.0.0		
BASE			(#910510W1.11147)		
910812W1.11168)					
			Irvine Compiler	VAXstation 3100 Model M38	Intel IS0960MC (bare
nternational	IBM 4381 (under MVS/ESA	Same as Host	Corporation	(under VMS 5.3-1)	machine)
lusiness Machines	Release 3.1)		ICC Ada v7.0.0		
Corporation			(#910510W1.11148)		
BM Ada/370, Version 1.2	20		Index Complies	VAVetelles 2400 Martil MCC	level locality in the second
unoptimized)			Inine Compiler	VAXstation 3100 Model M38	Intel i980MX in Hughes DM\
₱910812W1.11169)			Corporation	(under VMS Version 5.3-1)	running in tagged mode (be
Validated by Desistant			ICC Ada v7.4.0 (4030530)1 11390)		machine, using CHKSYS ker version 104)
Validated by Registration International		IBM 937x, 43xx, 308x, 3090 &	(#92052011.11260)		VOISION 1U4)
Remational Susiness Machines	IBM 3090 (under MVS/SP XA 2.2)	ES/9000 processors (under	Meridian Software	Sun-3/260 (under SunOS,	Same as Host
Corporation	E-E-J	MVS/SP XA 2.2)	Systems, Inc.	Version 4.1)	CALIFO DO FRON
BM Ada/370,		moju meej	Meridian Ada,	75.3011 7.17	
Version 1,2,0 & 1,3,0			Version 4.1		
BASE			(#900909W1.11031)		
910612W1.11169)			(**************************************		
			Meridian Software	Sun-4/110 (under SunOS,	Same as Host
Validated by Registration	1		Systems, Inc.	Version 4.1)	
temational	IBM 3090 (under MVS/ESA	IBM 937x, 43xx, 308x, 3090 &	Meridian Ada,		
usiness Machines	Release 4.1.0)	ES/9000 processors (MVS/ESA	Version 4.1		
orporation		Release 4.1.0)	(#900909W1,11032)		
3M Ada/370,					
ersion 1.2.0			*Validated by Registration		
BASE			Meridian Software	Sun Microsystems Sun-4,	Any Host
910612W1.11169)			Systems, Inc.	SPARCeerver & SPARCetation	
/alidated by Registration			Meridian Ada, Version 4.1	computer families (under	
nternational	IBM 3090 (under MVS/ESA	IBM 937x, 43xx, 308x, 3090 &	(BASE	SunOS Versions 4.1 & 4.1.1)	
usiness Machines	Release 4.2.0)	ES/9000 processors (MVS/ESA	#900909W1.11032)		
corporation	12.0	Release 4.2.0)	7 5 5 5 5 5 T 1: 1 1 5 G 2)		
3M Ada/370,		13.0230 12.07	Meridian Software	DECatation 3100 (under	Same as Host
ersion 1,2,0			Systems, Inc.	Ultrix, Version 3.0)	
BASE			Meridian Ada,	,	
10400400044 444000			Version 4.1		
810012W1.111081					
910612W1.11109)			(#900909W1.11033)		
	1		(#900909W1.11033)		
910612W1.11169) Validated by Registration Itemational	1 IBM 3090 (under MVS/ESA	IBM 937x, 43xx, 308x, 3090,	*Validated by Registration		
/alidated by Registration		IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	,) DECistation 2100, 3100 &	Any Host
/alidated by Registration ternational usiness Machines orporation	IBM 3090 (under MVS/ESA		*Validated by Registration		Any Host
/alidated by Registration ternational usiness Machines orporation IM Ada/370,	IBM 3090 (under MVS/ESA	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada,	DECatation 2100, 3100 &	Any Host
Validated by Registration itemational usiness Machines iorporation 3M Ada/370, ersion 1.3.0	IBM 3090 (under MVS/ESA	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1	DECatation 2100, 3100 &	Any Host
/alidated by Registration ternational usiness Machines orporation IM Ada/370, eraion 1.3.0 IASE	IBM 3090 (under MVS/ESA	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 &	Any Host
/alidated by Registration ternational usiness Machines orporation IM Ada/370, eraion 1.3.0 IASE	IBM 3090 (under MVS/ESA	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1	DECatation 2100, 3100 &	Any Host
/alklated by Registration ternational usiness Machines orporation BM Ada/370, ersion 1.3.0 3ASE 910812W1.11189)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0)	Any Host
/alklated by Registration ternational usiness Machines orporation IM Ada/370, ersion 1.3.0 IASE 910812W1.11189)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900009W1.11033)	DECatation 2100, 3100 &	
/alidated by Registration ternational usiness Machines orporation M Ada/370, ersion 1.3.0 IASE 910612W1.11169) /alidated by Registration ternational	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host)	"Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with	
/alidated by Registration ternational usiness Machines orporation MA Ada/370, ersion 1.3.0 NASE 910812W1.11169) /alidated by Registration ternational usiness Machines	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090,	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc.	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point	
/alidated by Registration remational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910612W1.11189) /alidated by Registration ternational usiness Machines orporation BM Ada/370,	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	eValidated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software Systems, Inc. Meridian Ada,	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM	
/alidated by Registration riternational usiness Machines orporation BM Ada/370, eraion 1.3.0 SASE 910612W1.11189) /alidated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (# 900909W1.11034)	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)	
/alidated by Registration ternational usiness Machines orporation M Ada/370, ension 1.3.0 IASE 910612W1.11169) /alidated by Registration ternational usiness Machines orporation M Ada/370, ension 1.3.0 IASE	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30)	Same as Host
/alidated by Registration ternational usiness Machines orporation MAda/370, ersion 1.3.0 MASE 910612W1.11169) /alidated by Registration ternational usiness Machines orporation MAda/370, ersion 1.3.0 MASE	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	eValidated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900909W1.11034) eValidated by Registration Meridian Software	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System	
/alidated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910812W1.11189) /alidated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910812W1.11189)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	"Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900906W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900906W1.11034) "Validated by Registration Meridian Software Systems, Inc.	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that	Same as Host
/alidated by Registration remational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910612W1.11169) /alidated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910612W1.11169)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under	"Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900906W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (# 900906W1.11034) "Validated by Registration Meridian Software Systems, Inc. Meridian Software Systems, Inc. Meridian Ada,	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286,	Same as Host
Validated by Registration international variness Machines orporation 3M Ada/370, ersion 1.3.0 3ASE 910812W1.11189) Validated by Registration iternational usiness Machines orporation 3M Ada/370, ersion 1.3.0 3ASE 910812W1.11189) viternational orporational orporational orporation 1.3.0 3ASE 910812W1.11189)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	"Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (# 900909W1.11034) "Validated by Registration Meridian Software Systems, Inc. Meridian Software Systems, Inc. Meridian Ada, Version 4.1	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 Instruction	Same as Host
/alidated by Registration Itemational usiness Machines orporation BM Ada/370, ersion 1.3.0 IASE 910612W1.11169) /alidated by Registration Itemational usiness Machines orporation BM Ada/370, ersion 1.3.0 IASE 910612W1.11169) Itemational omputers Limited ME Ada Compiler	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 Instruction set, fpu: Intel 80287,	Same as Host
/alkisted by Registration ternational usiness Machines orporation IM Ada/370, eraion 1.3.0 IASE 910812W1.11189) /alkisted by Registration ternational usiness Machines orporation IM Ada/370, eraion 1.3.0 IASE 910812W1.11189) ternational omputers Limited ME Ada Compiler IA3,00	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	"Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900909W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (# 900909W1.11034) "Validated by Registration Meridian Software Systems, Inc. Meridian Software Systems, Inc. Meridian Ada, Version 4.1	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80488 Instruction set, fpu: Intel 80287, 80387, or equivalent, as	Same as Host
/alklated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910812W1.11189) /alklated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910812W1.11189) ternational computers Limited ME Ada Compiler A3,00	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 Instruction set, fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 640	Same as Host
/alidated by Registration riemational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910612W1.11169) /alidated by Registration ternational usiness Machines orporation BM Ada/370, eraion 1.3.0 BASE 910612W1.11169) rternational omputers Limited ME Ada Compiler A3.3.00 B911003N1.11222)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV291)	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host) Same as Host	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 Instruction set, fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 840 KByte RAM minimum, dislc 20	Same as Host
/alidated by Registration riemational usiness Machines orporation BM Ada/370, ension 1.3.0 state 910612W1.11189) /alidated by Registration ternational usiness Machines orporation BM Ada/370, ension 1.3.0 state 910612W1.11189) rternational omputers Limited ME Ada Compiler A3,00 1911003N1.11222)	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV291) ICL Series 39 Level 80	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host)	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80488 Instruction set, fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 640 KByte RAM minimum, disk: 20 MByte hard drive, OS: IBM	Same as Host
/alkidated by Registration ternational usiness Machines orporation 3M Ada/370, eraion 1.3.0 3ASE 910812W1.11189) /alkidated by Registration ternational usiness Machines orporation M Ada/370, eraion 1.3.0 3ASE 910812W1.11189) /alkidated mile and computers Limited ME Ada Compiler A3,00 911003N1.11222) /alkidated mile and computers Limited mile and computers Limited mile and compiler A3,00 911003N1.11222) /alkidated mile and computers Limited mile and computers mile and compu	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV291) ICL Series 39 Level 80 (under VME with VMEB	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host) Same as Host	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80486 Instruction set, fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 840 KByte RAM minimum, dislc 20	Same as Host
Validated by Registration international usiness Machines internation in Machines internation in Machines internation 1.3.0 in Machines in	IBM 3090 (under MVS/ESA 4.1.0 & 4.2.0) IBM 4381 (under MVS/ESA 3.1.0) ICL Series 39 Level 80 (under VME with VMEB Environment Option Version SV291) ICL Series 39 Level 80	& ES/9000 computers (under same OS as Host) IBM 937x, 43xx, 308x, 3090, & ES/9000 computers (under same OS as Host) Same as Host	*Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE # 900609W1.11033) Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (#900609W1.11034) *Validated by Registration Meridian Software Systems, Inc. Meridian Ada, Version 4.1 (BASE	DECatation 2100, 3100 & 5000 (under Ultrix 3.0) IBM PS/2 Model 60 (with Floating-Point Co-Processor) (under IBM PC-DOS 3.30) Any Computer System comprising: cpu: any that executes the Intel 80286, 80386, or 80488 Instruction set, fpu: Intel 80287, 80387, or equivalent, as appropriate, memory: 640 KByte RAM minimum, disk: 20 MByte hard drive, OS: IBM	Same as Host

WENDOR, COMPILI & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILEI & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration			 Validated by Registration 		
Meridian Software	Any Computer System	Any Host	Meridian Software	Any Computer System	Any Host machine running th
Systems, Inc.	Comprising: Cpu: any that		Systems, Inc.	comprising: cpu: any that	same OS
Meridian Ada,	executes the Intel 80286,		Meridian Ada,	executes the Intel 80388 or	
Version 4.1.1	80388, or 80488 instruction		Version 4.1	80486 Instruction set, fpu:	
BASE	set; Fpu: Intel 80287,		(BASE	optional Intel 80387 or	
•			•		
#900909W1.11034)	80387, or equivalent, as		#900909W1.11037)	equivalent, for 80388 cpu,	
	appropriate; Memory: 640 or			memory: 2 MByte RAM	
	greater KByte RAM; Disic 20			minimum, disk 40 MByte	
	MByte hard drive (under IBM			hard drive, OS: SCO Unix	
	PC-DOS 3,30)			3.2 or Interactive 386/b:	
	•			1.0.6	
Meridian Software	IBM PS/2 Model 30 (with	Same as Host			
Systems, Inc.	Floating-Point		*Validated by Registration	n	
Meridian Ada,	Co-Processor) (under IBM		Meridian Software	Sequent Symmetry 2000/40,	Any Host
Version 4.1	PC-DOS 3.30)		Systems, Inc.	/200, /400 & /700 (under	
(#900909W1.11035)	1 0-000 0.00,		Meridian Ada,	DYNIX/ptx V1.2.0)	
(+60060611.11000)			The state of the s	D1140/pot 41.2.0)	
M/alldidad by Dischards			Version 4.1		
*Validated by Registration			(BASE		
Meridian Software	Any Computer System	Any Host	#900909W1.11037)		
Systems, Inc.	comprising: cpu: any that				
Meridian Ada,	executes the intel 8086		*Validated by Registration	1	
Version 4.1	instruction set, fpu: Intel		Meridian Software	Any Computer System	Any Host with the same OS
(BASE	8087 or equivalent, as		Systems, Inc.	Comprising: Cpu: any that	
#900909W1.11035)	appropriate, memory: 640		Meridian Ada.	executes the Intel 80388 or	
	KByte RAM minimum, disic 20		Version 4.1.1	80488 instruction set; Fpu:	
	MByte hard drive, OS: IBM		(BASE	Intel 80387 or equivalent,	
	PC-DOS 3.30		#900909W1.11037)	for 80386 cpu; Memory: 2 or	
				greater MByte RAM; Disk: 40	
 Validated by Registration 				MByte hard drive (under SCO	
Meridian Software	Any Computer System	Any Host		Unix 3.2 or INTERACTIVE	
Systems, Inc.	Comprising: Cpu: any that			UNIX System V/386 Release	
Meridian Ada,	executes the Intel 8088			3.2)	
Version 4.1.1	Instruction set; Fpu: Intel			 ,	
(BASE	8087 or equivalent, as		Meridian Software	Apple Macintosh II (under	Same as Host
					Serie as rivet
#900909W1.11035)	appropriate; Memory: 640 or		Systems, Inc.	System 6.0.3)	
	greater KByte RAM; Disk: 20		Meridian Ada,		
	MByte hard drive (under IBM		Version 4.1		
	PC-DOS 3.30)		(#900909W1.11C38)		
Meridian Software	ITT XTRA/286 (with	Same as Host	*Validated by Registration		
Systems, Inc.	Floating-Point	Carrie as Float	Meridian Software	Apple Macintosh SE 30	Same as Host
Meridian Ada,	Co-Processor) (under MS-DOS			• •	Strine as most
•			Systems, Inc.	(under System 6.0.3)	
Version 4.1	3.20/OS286)		Meridian Ada,		
(#900909W1.11036)			Version 4.1		
			(BASE		
"Validated by Registration			#900909W1,11038)		
Meridian Software	Any Computer System	Any Host	;		
Systems, Inc.	comprising: cpu; any that		Meridian Software	Apple Macintosh II (under	Same as Host
Meridian Ada,	executes the Intel 80288.		Systems, Inc.	A/UX 2.0)	
Version 4.1	80386, or 80488 instruction		Meridian Ada.	.,	
BASE	set, fpu: Intel 80287,		Version 4.1		
#900909W1.11036)	80387, or equivalent, as		(#901108W1.11080)		
	appropriate, memory: 1.5				0
	MByte RAM minimum, disk: 20		Meridian Software	Stardent Titan P3 (under	Same as Host
	MByte hard drive, OS:		Systems, Inc.	Stardent/Unbx 3.0)	
	MS-DOS 3.20/OS288		Meridian Ada,		
			Version 4.1		
Validated by Registration			(#901108W1.11081)		
	Any Computer System	Any Host			
	Comprising: Cpu: any that		Meridian Software	MicroVAX 3100 (under Ultrix	Same as Host
	executes the Intel 80288,		Systems, Inc.	•	
			-	3.1)	
	80386, or 80486 instruction		Meridian Ada,		
	set; Fpu: Intel 80287,		Version 4.1		
	80387, or equivalent, as		(#901108W1.11082)		
	appropriate; Memory: 1.5 or				
	greater MByte RAM; Disk: 20		Meridian Software	MicroVAX II (under VMS 5.2)	Same as Host
	MByte hard drive (under		Systems, Inc.		
	MS-DOS 3.30/OS286)		Meridian Ada,		
	,,		Version 4.1		
Aeridian Software	80 Data 386/25 (under	Same as Host	(#901108W1.11083)		
	The state of the s	COLLING TO FROM	(F801100W1,11003)		
	386/bx 1.0.6)		Mandalina D. C	IDM DO to Mandal DO 4.44	Same as blant
Aeridian Ada,			Meridian Software	IBM PS/2 Model 80 (with	Same as Host
ersion 4.1			Systems, Inc.	Floating Point	
#900909W1.11037)			Meridian Ada,	Co-Processor) (under IBM	
·			Version 4.1.1	PC-DOS 3.30/OS388)	
			(#911002W1.11218)	•	

VENDOR, COMPIL & CERTIFICATE :		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Meridian Software Systems, Inc.	NeXTstation (under System Floleage 2.0)	Same as Host	MiPS Computer Systems	MIPS M/2000 (under RISC/os 4.50)	Same as Host
Meridian Ada, Version 4.1			MIPS Ada 3.0 (#900619W1.11011)		
(#911002W1.11219) Meridian Software	SGI PowerSeries 4D/310S	Mercury MC880 VM (under	NEC Corporation NEC Ada Compiler	NEC EWS4800/220 (under EWS-UX/V (Release 4.0)	Same as Host
Systems, Inc. Meridian Ada.	(under IRIX Sys V 3.3.2)	MC/OS, Version 2.0)	System for EWS-UX/V (Release	R2.1)	
Version 4.1 (#911002W1.11220)			4.0), Version Release 2.1 (4.6)		
*Validated by Registratio	n		(#910918S1.11216)		
Meridian Software Systems, Inc. Meridian Ada,	SGI PowerSeries 4D/310S (under IRIX Sys V 3.3.2)	Mercury MC880VB & MC880VM (under MC/OS, Version 2.0)	NEC Corporation NEC Ada Compiler System for	NEC EWS4800/80 (under EWS-UX/V R8.1)	NEC MV4000 (under RX-UX V1.6)
Version 4.1 (BASE			EWS-UX/V to V70/FX-UX832,		
≠911002W1.11220)			Version 1.0 (#910918S1.11217)		
*Validated by Registratio		Manager Manager Manager	the listens of the Posteriories		
Meridian Software Systems, Inc. Meridian Ada,	SGI PowerSeries 4D/310S (under IRIX Sys V 3.3.2)	Mercury MC880VS (under MC/OS, Version 2.VS)	*Validated by Registration NEC Corporation NEC Ada Compiler	All RISC (MIPS R3000- &	NEC MV4000 (under RX-UX V1.6)
Version 4.1			System for	R4000-based) models of the EWS4800 series (under	V 1.0)
(BASE #911002W1.11220)			EWS-UX/V (Rel 4.0) to	EWS-UX/V (4.0) R2.1)	
Meridian Software	Sun-4/110 (under SunOS,	Mercury MC880 VM (under	V70/RX-UX832, Version 1.0		
Systems, Inc. Meridian Ada,	Version 4.1)	MC/OS, Version 2.0)	(BASE #910918S1.11217)		
Version 4.1 (#911002W1.11221)			North China	MicroVAX II (under ULTRIX	Same as Host
*Validated by Registratio	0		Institute of Computing	3.0)	
Meridian Software	Sun Microsystems Sun-4/110,	Mercury MC880VB & MC880VM	Technology		
Systems, Inc. Meridian Ada, Version 4.1 (BASE	/150, /260 & /260; SPARCeerver 330, 370, 360, 470 & 490; and SPARCstation 2, IPC & IPX (under SunOS	(under MC/OS, Version 2.0) and Mercury MC880VS (under MC/OS, Version 2.VS)	C_Ada, Version 1.0 (#910902N1.11198)		
#911002W1.11221)	Versions 4.1 & 4.1.1) and SPARCengine 1E (under SunOS		Proprietary Software Systems,	VAX 8350 (under VMS Version 5.4)	PSS Zoran ZR34325 Digital Signal Processor AdaRAID
	Version 4.1e)		Inc. PSS VAX/ZR34325	S1,	Version XK-01.000 (bare machine simulation,
Meridian Software	Sequoia Series 400 (under	Same as Host	Compiler Version		executing on the Host)
Systems, Inc. Meridian Ada,	Topix, Version 6.5)		XB-01.000 (#920423l1.11250)		
Version 4.1 (#911216W1.11232)			R.R. Software,	IBM PS/2 Model 80 (under	IBM PS/2 Model 80 (under
Meridian Software	Intergraph interpro 2400	Same as Host	Inc. Janus/Ada 2.2.0	Phar Lap/DOS 3.3)	DOS 3.3)
Systems, Inc. Meridian Ada, Version 4.1.3	(under CLIX System 5, Release 3.1)		Phar Lap/DOS (#901120W1.11088)		
(#920915W1.11296)			*Validated by Registration		4
Meridian Software	Essence 838 (under DOS 5.0,	Same as Host	R.R. Software, Inc.	Any Computer System Comprising: cpu: Intel	Any Computer System Comprising: cpu: Intel
Systems, Inc. Meridian Ada.	running Microsoft Windows 3.0)		Janus/Ada 2.2.0 Phar Lap/DOS	80388, fpu: optional, memory: 4 MByte RAM, disk:	80386, fpu: optional, memory: 4 MByte RAM, disi
Version 4.1.3 (#920915W1.11267)			(BASE #901120W1.11068)	40 MByte hard drive (under Phar Lap/DOS 3.3)	40 MByte hard drive (under MS DOS 3.3)
Meridian Software	BBN TC2000 (under nX 3.0.1)	Same as Host	*Validated by Registration		
Systems, Inc. Veridian Ada,			R.R. Software,	Any Computer System	Same as Host
/ersion 4.1.3			Inc. Janus/Ada 2.2.1	Comprising: cpu: any that executes Intel 8088/8088	
#920915W1.11268)	DDM TORRES (Value Man C	PRINTED	DOS (BASE	instructions; fpu: optional; memory: 640	
Meridian Software Systems, Inc.	BBN TC2000 (under nX 3.0.1)	BBN TC2000 (under pSOS+/88k)	#901120W1.11088)	KByte RAM; dist: 20 MByte hard drive (under MS DOS 3.3)	
Meridian Ada, /ersion 4.1.3			*Validated by Registration		
#920915W1.11269)			R.R. Software,	Any Computer System Comprising: cpu: any that	Any Host
MIPS Computer	MIPS M/2000 (under RISC/os	R3200-6 CPU board (bare	Janus/Ada 2.2.2	executes the Intel	
Systems MIPS ASAPP 3.0	4.50)	machine)	DOS (BASE	8086/8088 instruction set; fpu: optional; memory:	
(#900819W1.11010)			#901120W1.11068)	640 KByte RAM; disk: 20 MByte hard drive (under MS-DOS 3.3)	

VENDOR, COMPILE & CERTIFICATE #	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
			***************************************	· · ·	
*Validated by Registration			Rocievell	VAXatation 3100 Model 30	GAPS/AAMP2 (bare machine)
R.R. Software,	Any Computer System	Any Host (under MS-DOS 3.3)	International	(under VMS 5.4)	
inc.	Comprising: cpu: any that		Corporation		
	executes the Intel 80388		DDC-Based		
	Instruction set; fpu:		Ada/CAP8		
•	optional; memory: 2 MByte		Compiler, Version		
	RAM; disk: 40 MByte hard		6.0		
	drive (under Phar Lap / MS-DOS 3.3)		(#910306W1.11130)		
			*Validated by Registration		
	Northgate 386/25 (under SCO	Same as Host	Rociwell	DEC VAX-11, VAXserver,	CAPS/AAMP2 (bare machine)
	Unix 3.2)		International	VAXstation, MicroVAX, VAX	
Janus/Ada 2.2.0			Corporation	8000, VAX 8000 & VAX 9000	
Jnbx			DDC-Based	Series of computers (under	
#901129W1.11089)			Ada/CAPS Compiler, Version	VMS Versions 5.3-1 & 5.4)	
Validated by Registration			8.1		
	Any Computer System	Same as Host	(BASE		
· · · · · · · · · · · · · · · · · · ·	Comprising: cpu: Intel		#910306W1.11130)		
	80388, fpu: optional,		,		
A second	memory: 4 MByte RAM, disk:		SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola MVME133XT board
	60 MByte hard drive (under		XD Ada MC88020,	VAXserver 3600, MicroVAX	(MC88020) (bare machine)
	SCO Unix 3.2)		Version 1.2	2000 (2) & MicroVAX II	,, ,,
			(#901007N1.11042)	machines) (under VMS	
Validated by Registration			(Version 5.3)	
	Any Computer System	Any Host			
	Comprising: cpu: any that		*Validated by Registration	1	
	executes the Intel 80386		SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola MVME135-1 board
JNIX	Instruction set; fpu:		XD Ada MC88020	VAXaerver 3600, MicroVAX	(MC68020) and Motorole
BASE	optional; memory: 4 MByte		Version 1.2	2000 (2) & MicroVAX II	MVME147S-1 board (MC88030
F901129W1.11089)	RAM; disk: 40 MByte hard		(BASE	machines) (under VMS 5.3)	(bere machines)
	drive (under SCO Unix 3.2)		#901007N1.11042)		
Rational	R1000 Series 300 (under	Phillips PG2100 (OS-2000	"Validated by Registration		
	Rational Environment	Release 2.0)	SD-Scieon UK Ltd	VAX Cluster (comprising	Motorola MVME133XT board
	Version D 12 24 0)		XD Ada MC88020.	VAXserver 3600, MicroVAX	(MC88020) (bare machine)
acility, Version			Version 1.2A	2000 (2) & MicroVAX II	,,
			(BASE	machines) (under VMS 5.4)	
≠901116W1.11081)			#901007N1.11042)	,	
Rational	R1000 Series 300 (under	HP 9000 Model 370MH (under	*Validated by Registration		
	Rational Environment	HP-UX Version 7.0)	SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola MVME135-1 (MC8802
	Version D_12_24_0)	TH -GAX VEHICLE 7.0)	XD Ada MC88020	VAXeever 3600, MicroVAX	& MVME147S-1 (MO88030)
acility, Version	version D_12_24_0)		MVME135 &	2000 (2) & MicroVAX II	boards (bare machines)
,			MVME147, Version	machines) (under VMS 5.4)	DOLLOS (DES TRESTROS)
#901116W1.11082)			1.2A	macranes) (onder 4MS 5.4)	
001110111111002			(BASE		
lational !	R1000 Series 300 (under	Motorola MVME135 (68020)	#901007N1.11042)		
	Rational Environment	(bare machine)	750100/N1.110A2)		
	Version D_12_24_0)	(DEED THEORIES)	*Validated by Registration		
acility, Version	voidai. 0_12_24_0/		SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola MVME135-1 board
			XD Ada	VAXserver 3600, MicroVAX	(MC68020) (bare machine)
#901116W1.11083)			MC68020/EFA,	2000 (2) & MicroVAX II	(moodes) (bes meaning)
			Version 1.2A	machines) (under VMS 5.4)	
lational !	R1000 Series 300 (under	Same as Host	(BASE		
	Rational Environment		#901007N1.11042)		
	Version D 12 24 0)				
12 24 0			*Validated by Registration		
₹901116W1.11084)			SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola M68340EVS
			XD Ada CPU32	VAXserver 3600, MicroVAX	Evaluation System CPU32
lockwell \	/AX 8650 (under VMS,	CAPS/AAMP1 (bare machine)	Version 1.2	2000 (2), & MicroVAX II	(bare machine)
nternational \	/ersion 5.3-1)		(BASE	machines) (under VMS 5.4)	
Corporation			#901007N1.11042)		
DC-Based					
da/CAPS			*Validated by Registration		
compiler, Version			SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola M68332EVS
.0				VAXserver 3600, MicroVAX	Evaluation System CPU32
F910306W1.11129)			CPU32/MC88332	2000 (2), & MicroVAX II	(bare machine)
Validated by Bantotast-			Version 1.2	machines) (under VMS 5.4)	
Validated by Registration lockwell	DEC VAX-11, VAXserver,	CAPS/AAMP1 (bare machine)	(BASE #901007N1,11042)		
	/AXstation, MicroVAX, VAX	and alternative (frame timestime)	750 1007 H1,1 1042		
	9000, VAX 8000 & VAX 9000		SD-Scicon UK Ltd	Local Area VAX Cluster	Fairchild F9450 on a SBC-50
			XD Ada		board (MIL-STD-1750A) (bare
	Series of computers (under /MS Versions 5.3-1 & 5.4)		MIL-STD-1750A,	(comprising VAXserver 3600, MicroVAX 2000 (2) &	machine)
compiler, Version	7 TO THIS OLD (0. 0.4)			• • • • • • • • • • • • • • • • • • • •	
.1			Version 1.2 (#901214N1.11060)	MicroVAX II machines) (under VMS 5.3)	
			(900121-441.11000)	(4.1.20) 11110 010)	
BASE					

VENDOR, COMPIL & CERTIFICATE 1		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (09
				*	
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MC68000 on an	 Validated by Registration 		
XD Ada MC88000,	(comprising VAXserver 3600,	MVME117-3FP board (bare	Siemens Nixdorf	Siemens Nixdorf WX200 &	Each Host, self targeted
Version 1.2	MicroVAX 2000 (2) &	machine)	Informationssyste	MX500i (under SINIX Version	
(#910314N1.11134)	MicroVAX II machines)		me AG	5.41)	
((under VMS 5.4)		Ada (SIND) V4.1	,	
	(41061 4100 0.4)		(BASE		
M 4 - 11 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4			•		
"Validated by Registratio			#920325i1.11249)		
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MC88000 on an			
XD Ada	(comprising VAXserver 3800,	MVME117-3FP board (bare	Siemens Nixdorf	Siemens Nixdorf RM600	Same as Host
MC88000/EFA,	MicroVAX 2000 (2) &	machine)	Informationssyste	(under SINIX Version V5.41)	
Version 1.2	MicroVAX II machines)	•	me AG		
BASE	(under VMS 5.4)		Ada (SIND) V4.1		
F910314N1.11134)	(driver visio 5.4)		(#92092211.11276)		
P 8 100 1941.11110-1			(982082211.11270)		
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MVME147S-1	Silicon Graphics	Iria-4D/380 (under IRIX	Same as Host
XD Ada	(comprising VAXserver 3600,	(MC88030) (bare machine)	Computer Systems	Release 4D-3.3)	
MC88020/ARTX,	MicroVAX 2000 (2) &	,	4D ADA 3.0		
/ersion T1.2	MicroVAX II machines)		(#900703W1,11014)		
	•		(1200,00111.11014)		
(#910911N1.11199)	(under VMS 5.4)		Ollins a Donat I	Ide 4D (000C)	0
			Silicon Graphics	Irle-4D/220S (under IRIX	Same as Host
8D-Scicon UK Ltd	Local Area VAX Cluster	Motorola MVME185 (MC88040)	Computer Systems	Release 4D-3.3)	
XD Ada MC88040,	(comprising VAXserver 3600,	(bare machine)	4D ADA 3.0		
/ersion 1.2	MicroVAX 2000 (2) &		(#900703W1.11015)		
#911128N1.11230)	MicroVAX II machines)				
	(under VMS 5.4)		Silicon Graphics	iris-4D/25 (under IRIX	Same as Host
	(C. COII THIS 0.4)		The state of the s		
Malldated by D. J			Computer Systems	Release 4D-3.3)	
Validated by Registratio			4D ADA 3.0		
SD-Scicon UK Ltd	Local Area VAX Cluster	FORCE CPU-40 (MC88040) (bare	(#900703W1.11016)		
CD Ada	(comprising VAXserver 3600,	machine)			
MC88040/FORCE	MicroVAX 2000 (2), &		Silicon Graphics,	SGI Indigo (under Irix	Same as Host
CPU-40, Version	MicroVAX II machines)		Inc.	V4.0)	
2	(under VMS 5.5)		VADS SGHrbx,		
BASE	(discer visio 5.5)				
•			SC4-ADA-4.0,		
F911128N1.11230)			Version 6.1		
			(#910920W1.11203)		
Validated by Registratio	n				
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MVME167 (88040)	*Validated by Registration		
(D Ada MC88040,	(comprising VAXserver 3600,	(bare machine)	Silicon Graphics,	IRIS Indigo, Personal IRIS	Any Host
Version 1.2	MicroVAX 2000 (2), &	(222	Inc.	4D, IRIS 4D series of	
BASE	MicroVAX II machines)		VADS SGHirbs	computers (under Irix V4.0)	
				computers (under mix 44.0)	
P911128N1.11230)	(under VMS 5.5)		SC4-ADA-4.0,		
			Version 6.1		
Siemens Nixdorf	SIEMENS NIXDORF 7,590G	Same as Host	(BASE		
nformationssyste	(under BS2000 V9.5)		#910920W1.11203)		
ne AG					
SIEMENS NIXDORF			Silicon Graphica,	SGI 4D/440 (under Irix	Same as Host
3S2000 Ada			Inc.	V3.3)	
Compiler V2.1			VADS SGHrtx,		
#901119l1.11111)			SC4-ADA-4.0,		
41.114.4.4.			Version 6.1		
Validated by Registration	1		(#910920W1.11204)		
Siemens Nixdorf	SIEMENS NIXDORF 7.530,	Same as Host			
nformationssyste	7.536, 7.541, 7.550, 7.551,		SKY Computers,	SGI Personal Iris W-4D25	SKYbolt 8116-V (under
ne AG	7.580, 7.581, 7.570, 7.571,		inc.	(under Irix System V 3.3)	SKYbolt kernel version :
HEMENS NIXDORF	7.580 & 7.590; 7.500-C30,		Meridian Ada,	(
SS2000 Ada			•		
	-C40, -H80, -H90 & -H120		Version 4.1		
Compiler V2.1	(under BS2000 V9.5 & V10.0)		(#910711W1.11183)		
BASE					
901119(1.11111)			SKY Computers,	SPARCstation 1 (under SunOS	SKYstation 8117-P (und
			, ,	release 4.1)	SKYstation ternel version
Biemens Nixdorf	Siemens Nixdorf WX200	Same as Host	Meridian Ada,		2.33)
nformationssyste	(SINIX-ODT) (under		Version 4,1		,
ne AG	SINIX-ODT V1.0)				
Ada (SIND) V4.1	G. 11.0)		(#9 10711W1.11185)		
			2004 0	OCI Demand Life M. (Doc	Dama as thest
#910711W1.11181)				SGI Personal Iris W-4D25	Same as Host
				(under Irix System V 3.3)	
			Meridian Ada,		
	Siemens Nixdorf WX200	Same as Host	Version 4.1		
			(#910711W1.11189)		
Validated by Registration Remens Nixdorf Informationssyste	(SINIX-ODT) (under		•		
Siemens Nixdorf Informationssyste	•			Stratus XA/R20 (under FTX,	Same as Host
ilemens Nixdorf nformationssyste ne AG	(SINIX-ODT) (under SINIX-ODT V1.5)			רושות אין ושטו למוששו בולי	Carry and I foot
tiemens Nixdorf informationssyste ne AG da (SINIX) V4.1	•		•	0.0.41	
demens Nixdorf oformationssyste one AG da (SINDX) V4.1 BASE	•		inc.	2.0.1)	
ilemens Nixdorf nformationssyste ne AG	•		Inc. Stratus Ada,	2.0.1)	
demens Nixdorf oformationssyste one AG da (SINDX) V4.1 BASE	•		inc.	2.0.1)	
demens Nixdorf oformationssyste one AG da (SINDX) V4.1 BASE	•	Same as Host	Inc. Stratus Ada,	2.0.1)	
elemens Nixdorf informationssyste ne AG da (SINIX) V4.1 BASE 910711W1.11181)	SINDX-ODT V1.5) Siemens Nixdorf MX300I	Same as Host	inc. Stratus Ada, Version 6.1	2.0.1)	
lemens Nixdorf informationssyste te AG da (SIND) V4.1 BASE 910711W1.11181) iemens Nixdorf informationssyste	SINIX-ODT V1.5)	Same as Host	inc. Stratus Ada, Version 6.1	2.0.1)	
lemens Nixdorf formationssyste te AG da (SINIX) V4.1 BASE 910711W1.11181) temens Nixdorf	SINDX-ODT V1.5) Siemens Nixdorf MX300I	Same as Host	inc. Stratus Ada, Version 6.1	2.0.1)	

VENDOR, COMP		TARGET	VENDOR, COMPILEI		TARGET
& CERTIFICATE	# MACHINE & (OS)	MACHINE & (OS)	& CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
Validated by Registrat		Amustana	*Validated by Registration		
Sun Microsystems	Sun Microsystems Sun-4,	Any Host	Tertan, Inc.	Sun 3/80 (under SunOS	Same as Host
lun Microsystems	SPARCeerver, & SPARCetation		Tartan Ada	Version 4.0.3)	
iun Ada, SunOS,	computer families;		Sun/Sun, Version		
DE-1.0-4-4-21,	SPARCeerver 600MP Series; &		4.2		
ersion 1.0	4800MP-84 (under SunOS		(BASE		
BASE	Version 4.2 releases 4.1 &		#90121111.11118)		
900510W1.11006)	4.1.2, as supported)		Today to	MAY-1-11 0400 (41040	1-1-1105000 (07 1-1-1
Intidated by Declarate	Non		Tartan, Inc.	VAXstation 3100 (under VMS	Intel ICE980/25 on an Intel
/alidated by Registrat un Microsystems		Any Host	Tartan Ada VMS/980MC.	5.2)	EXV80980MC board (bare
un Microsystems	Sun Microsystems Sun-4, SPARCeerver, SPARCetation.	Ally Host	Version 4.0		machine)
un Ada, SunOS,	& SPARCengine computer		(#901212I1.11120)		
DE-1.1-4-4-21,	families; SPARCeerver 600MP		(10012121111120)		
ersion 1.1	Series; & 4800MP-64 (under		*Validated by Registration	n	
ASE	SunOS Version 4.2 release		Tarian, Inc.	VAXstation 3100 (under VMS	intel EXV80980MC board, &
900510W1,11006)	4.1.2)		Tartan Ada	5.2)	Intel ICE980/25 on an Intel
,			VMS/980MC,		EXV80960MC board (bare
alidated by Registrat	tion		Version 4.1		machines)
ın Microsystems	Sun Microsystems Sun-4,	Any Host	(BASE		,
un Microsystems	SPARCeerver, & SPARCetation	• 113-3	#90121211.11120)		
un Ada, SunOS,	computer families (under		,		
DE-1.1-4-4-21,	SunOS 4.1.3)		*Validated by Registration	1	
ersions 1.0 &			Tartan, Inc.	VAXatation 3100 (under VMS	Intel ICE980/25 on an Intel
.1			Terten Ada	5.2)	EXV80980MC board (bare
BASE			VMS/980MC,		machine)
900510W1.11006)			Version 4.2.1		
			(BASE		
artan, Inc.	VAXstation 3100 (under VMS	Texas instruments TMS320C30	#90121211.11120)		
utan Ada	5.2)	Application Board (bare			
AS/C30, Version		machine)	*Validated by Registration	1	
0			Tartan, Inc.	VAXstation 3100 (under VMS	Intel EXV80980MC board (ba.
90121011.11121)			Tarten Ada	5.2)	machine)
			VMS/860MC,		
alidated by Registrati			Version 4.2.1		
artan, Inc.	VAXstation 3100 (under VMS	Texas Instruments TMS320C30	(BASE		
artan Ada	5.2)	Application Board (bare	#90121211.11120)		
VIS/C30, Version		machine)			
1			Tartan, Inc.	Sun 3/50 (under SunOS	Texas Instruments TMS320C3
BASE			Tartan Ada	Version 4.0.3)	Application Board (bare
901210[1.11121]			Sun/C30 Version		machine)
			4.0		
/alidated by Registrati			(#901212(1.11123)		
utan, Inc.	VAXstation 3100 (under VMS	Texas Instruments TMS320C30	1		
artan Ada MS/C30, Version	5.2)	Application Board, NAVY	*Validated by Registration		9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
.1.1		SEM-D Key Code ADSP (bere	Tartan, Inc.	Sun 3/50 (under SunOS	Texas Instruments TMS320C3
ASE		machines)	Tertan Ada	Version 4.0.3)	Application Board (bare
			Sun/C30, Version		machine)
90121011.11121)			4.1.1 (BASE		
/alidated by Registrati	lon		V		
		Towns looks march Tatonson	#901212(1.11123)		
utan, inc. utan Ada	VAXstation 3100 (under VMS	Texas Instruments TMS320C30	Tedes to	VAVatation 2000 Auralian 1840	Towns Instruments CTI MUNIC
MS/C30/IPS,	5.2)	(bere machine)	Tartan, Inc.	VAXstation 3200 (under VMS	Texas Instruments STL VHSIC
eraion 4.1.2			Tartan Ada	5.2)	1750A (bare machine)
ASE			VMS/1750A, Version 4.0		
901210i1.11121)					
			(#901213l1.11119)		
artan, Inc.	Sun 3/60 (under SunOS	Intel ICE980/25 on an Intel	*Validated by Registration		
artan Ada	Version 4.0.3)	EXV80980MC board (bare	Tartan, Inc.	VAXstation 3200 (under VMS	Texas Instruments STL VHSIC
un/980MC.	. 5.0001 -1.0101	machine)	Tartan Ada	5.2)	1750A (bare machine)
ersion 4.0			VMS/1750A,	u-a-j	sur (suc manning)
90121011.11122)			Version 4,1		
			(BASE		
rtan, inc.	Sun 3/60 (under SunOS	Same as Host	#901213(1.11119)		
rtan Ada	Version 4.0.3)		70012101111119)		
n/Sun, Version			Tartan, Inc.	VAXstation 3100 (under VMS	Motorola MVME134 (MC88020
)			Tartan Ada	5.2)	(bare machine)
901211 1.11118)			VMS/680XD,		1000
			Version 4.1		
alidated by Registration	00		(#910813i1.11171)		
montes by registration	Sun 3/60 (under SunOS	Same as Host	(201001311.11171)		
rtan Ada	• •	CHIN ES FIUK	Walidated by Designation		
	Version 4.0.3)		*Validated by Registration		Motomia MANETZA ANCESOS
n/Sun, Version			•	VAXstation 3100 (under VMS	Motorola MVME134 (MC8802)
			Tartan Ada	5.2)	MVME143 (MC88030), &
NSE 0121111 11118\			VMS/680X0,		MVME165 (MC68040) (bare machines)
10121111.11118)			Version 4.1.1		machines)
			(BASE		
			#910813(1.11171)		

& CERTIFICATE #	ER HOST MACHINE & (OS)	TARGET MACHINE & (OS)	VENDOR, COMPILER	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)
		(0.0)			· · · · · · · · · · · · · · · · · · ·
Malidated by Decistration			*Validated by Registration	•	
*Validated by Registration		A4-4			Materia based dedec
Tartan, Inc.	VAXstation 3100 (under VMS	Motorola MVME134 (MC88020)	TeleSoft	DEC VAX-11, VAXserver,	Motorola board series
Tarten Ada	5.2)	(bare machine)	TeleGen2 Ada	VAXstation, MicroVAX, VAX	MVME133*, MVME135*,
VMS/680X0/IPS,	·	·	Cross Development	8000, VAX 8000 & VAX 9000	MVME136* (MC88020);
			The state of the s	•	
Version 4.1.2			System for VAX to	Series of computers (under	MVME141* & MVME147*
(BASE			68K, Version 4.1	VMS Versions 5.0, 5.1, 5.2,	(MC88030); and Force CPU-30
#910813I1.11171}			(BASE	5.3 & 5.4, as supported)	CPU-31, CPU-32 & CPU-37 (b)
F 61001011.1111/1/			•	as a s.t, as supported,	
			#910121l1.11124)		machines)
Tartan, Inc.	SPARCetation ELC (under	Texas Instruments TMS320C30			
Tartan Ada SPARC	SunOS version 4.1.1)	Application Board (bare	*Validated by Registration		
	30100 talaali 4.1.1)		, ,		Advanced to the second
C30, Version 4.2		machine)	TeleSoft	DEC VAX-11, VAXserver,	Motorola board series
(#920313\1.11244)			TeleSoft TRIAD	VAXstation, MicroVAX, VAX	MVME147* (MC88030) (bare
			System for	6000, VAX 8000 & VAX 9000	machines, using
		5 1 1 1 1 5 1 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•		
Tartan, Inc.	SPARCetation ELC (under	Fairchild F9450 on an SBC-50	VAX/VMS to 68K,	Series of computers (under	TeleAda-Exec)
Tartan Ada SPARC	SunOS version 4.1.1)	board (MIL-STD-1750A) (bare	Version 4.1	VMS Versions 5.0, 5.1, 5.2,	
1750a, Version		•	(BASE	5.3 & 5.4, as supported)	
		machine)	*	as a s.4, as supported)	
4.2			#910121[1.11124]		
(#920313 1.11245)					
(,			*Validated by Registration		
_					
Tartan, Inc.	SPARCetation ELC (under	Motoroia MVME134 (MC88020)	TeleSoft	DEC VAX-11, VAXserver,	Motorola MVME165* &
Tartan Ada SPARC	SunOS version 4.1.1)	(bare machine)	TeleGen2 Ada	VAXstation, MicroVAX, VAX	MVME167* (68040) board fam
880X0, Version			Cross Development	6000, VAX 8000 & VAX 9000	(bare machines)
			· ·		(-mo illustration)
4.2			System for	Series of computers (as	
(#920313l1.11246)			VAX/VMS to 68K,	supported) (under VMS	
			Version 4.1	Versions 5.0, 5.1, 5.2, 5.3	

Tartan, Inc.	SPARCetation ELC (under	Intel EXV80980MC board (bare	(BASE	& 5.4)	
Tartan Ada SPARC	SunOS version 4.1.1)	machine)	#91012111.11124)		
980mc, Version	,				
					1 18 . I T b l
4.2			TeleSoft	MicroVAX 3800 (under .	Integrated Davice Technology
(#920313\1.11247)			TeleGen2 Ada	VAX/VMS Version 5.2)	IDT7RS301 System
•			Cross Development		(R3000/R3010) (bare machine)
					(1 2000) 1 20 10) (Date III acidine
Tartan, Inc.	VAXetation 4000 Model 60	Texas instruments TMS320C40	System, Version		
Tartan Ada	(under VMS 5.5)	Parallel Processing	4.1, for VAX/VMS		
VMS/C40 v4.2.1	(Development System (bare	to MIPS		
(#921030 1.11296)		machine)	(#910123 1.11125)		
TeleSoft	Sun-3/280 (under Sun UNIX	Same as Host	TeleSoft	Sun-3/480 (under Sun UNIX,	Motorola MVME135-1 (MC8802
		Source as Front			·
TeleGen2 Sun-3	4.2, Release 4.0.3)		TeleGen2 Ada	Release 4.1)	(bare machine)
Ada Development			Cross Development		
System, Version			System, Version		
4.01			4.1, for SUN-3 to		
#900525l1.11012)			68K		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
			(#910125l1.11126)		
l'eleSoft	Sun-4/280 (under Sun UNIX	Same as Host			
TeleGen2 Ada Host	4.2, Release 4.1)		TeleSoft	VAX 6210 (under VMS 5.3)	Intel ISBC 386-120
	42, 11010000 4.11			4700 0210 (GIRDEI 4MG 535)	
Development			TeleGen2 Ada		(80388/387) (bare machine,
System, Version			Cross Development		using TeleAda-EXEC 1.0)
1.1, for			System, Version		
SPARCSystems			3.1 for VAX/VMS		
#901128W1.11090)			to 386		
			(#910325i1.11139)		
•					
			(5 6 10 000 11 11 100)		
Validated by Registration	1		(**************************************		
	Sun Microsystems Sun-4,	Any Host	*Validated by Registration		
Validated by Registration releSoft	Sun Microsystems Sun-4,	Any Host	*Validated by Registration		Intel ISBC 488/133SE hoard
Validated by Registration releSoft releGen2 Ada Host	Sun Microsystems Sun-4, SPARCserver, SPARCstation,	Any Host	*Validated by Registration TeleSoft	VAX 4000-300 (under VMS	Intel ISBC 486/133SE board
Validated by Registration FeleSoft FeleGen2 Ada Host Development	Sun Microsystems Sun-4,	Any Host	*Validated by Registration		(bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development	Sun Microsystems Sun-4, SPARCserver, SPARCstation, & SPARCengine computer	Any Host	*Validated by Registration TeleSoft	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development	VAX 4000-300 (under VMS	· ·
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems,	Sun Microsystems Sun-4, SPARCserver, SPARCstation, & SPARCengine computer	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration relesort releGen2 Ada Host Development System for 3PARCSystems, /ension 4.1	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems,	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration relector. relector Ada Host Development System for SPARCSystems, /ersion 4.1 BASE	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	"Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration relesort releGen2 Ada Host Development System for 3PARCSystems, /ension 4.1	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	"Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration relector. relector Ada Host Development System for SPARCSystems, /ersion 4.1 BASE	Sun Microsystems Sun-4, SPARCeener, SPARCstation, & SPARCengine computer families (under SunOS 4.2,	Any Host	"Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE	VAX 4000-300 (under VMS	(bare machine, using
Validated by Registration releSoft FeleGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE P801128W1.11090)	Sun Microsystems Sun-4, SPARCeenver, SPARCetation, & SPARCengine computer families (under SunOS 4.2, release 4.1)	Any Host	"Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAde-EXEC 1.0)
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, Fersion 4.1 BASE P901128W1.11090) Validated by Registration	Sun Microsystems Sun-4, SPARCeenver, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleSoft TeleSoft Version 3.1 (BASE #91032511.11139)	VAX 4000-300 (under VMS	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030)
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE P901128W1.11090) Validated by Registration FeleSoft	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE P901128W1.11090) Validated by Registration FeleSoft	Sun Microsystems Sun-4, SPARCeenver, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleSoft TeleSoft Version 3.1 (BASE #91032511.11139)	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030)
Validated by Registration FeleSoft Cevelopment System for SPARCSystems, /ersion 4.1 BASE #901128W1.11090) Validated by Registration FeleSoft FeleGen2 Ada Host	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE #801128W1.11080) *Validated by Registration FeleSoft FeleGen2 Ada Host Development	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #81032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME 147 (88030) (bare machine, using
"Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, Fersion 4.1 BASE P901128W1.11090) "Validated by Registration FeleSoft FeleGen2 Ada Host Development System for	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11136) TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE #801128W1.11080) *Validated by Registration FeleSoft FeleGen2 Ada Host Development	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #81032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME 147 (88030) (bare machine, using
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, (eration 4.1 BBASE P901128W1.11090) Validated by Registration FeleGen2 Ada Host Development System for SPARCSystems,	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Validated by Registration FeleSoft FeleSoft Person 4.1 BASE P901128W1.11090) Validated by Registration FeleSoft FeleGen2 Ada Host Development System for Systems, /ersion 4.1	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11136) TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to	VAX 4000-300 (under VMS 5.4-3)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Velidated by Registration FeleSoft FeleSoft PeleSoft Pele	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #910325i1.11139) TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#910325i1.11140)	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using
Validated by Registration FeleSoft FeleSoft Person 4.1 BASE P901128W1.11090) Validated by Registration FeleSoft FeleGen2 Ada Host Development System for Systems, /ersion 4.1	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using
Velidated by Registration FeleSoft FeleSoft PeleSoft Pele	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #910325i1.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#910325i1.11140)	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1)	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (98030) (bare machine, using TeleAda-EXEC 1.0)
Validated by Registration feleSoft feleGen2 Ada Host bevelopment system for SPARCSystems, fersion 4.1 BASE P801128W1.11080) Validated by Registration feleSoft feleGen2 Ada Host bevelopment system for SPARCSystems, fersion 4.1 BASE P801128W1.11080)	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1)	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11136) TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4,	(bare machine, using TeleAde-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13
Validated by Registration feleSoft feleGen2 Ada Host bevelopment system for SPARCSystems, fersion 4.1 BASE P801128W1.11080) Validated by Registration feleSoft feleGen2 Ada Host bevelopment system for SPARCSystems, fersion 4.1 BASE P801128W1.11080)	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1)		*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #910325i1.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#910325i1.11140)	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1)	(bare machine, using TeleAde-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, (eration 4.1 BBASE PROSTEMENT AND PR	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/80 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCeerver & SPARCetation	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13 MVME138* (88020); MVME141
Velidated by Registration FeleSoft Cevelopment System for SPARCSystems, /ersion 4.1 BASE P901128W1.11080) Validated by Registration FeleSoft CeteGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE P901128W1.11090) FeleSoft CeteGen2 Ada Host Development System for SPARCSystems, /ersion 4.1 BASE P901128W1.11090)	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1)	Any Host	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#91032511.11140) *Validated by Registration TeleSoft TeleGen2 Ada Cross Development	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13 MVME138* (88020); MVME141 MVME147* (68030); and
Validated by Registration feleSoft feleSoft feleSoft feleSoft fersion 4.1 BASE F901128W1.11080) Validated by Registration feleSoft feleGen2 Ada Host development d	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/80 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCeerver & SPARCetation	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13 MVME138* (88020); MVME141 MVME147* (68030); and
Validated by Registration FeleSoft FeleSoft FeleSoft FeleGen2 Ada Host Development Bystem for SPARCSystems, /ersion 4.1 BASE F901128W1.11090) Validated by Registration FeleSoft FeleGen2 Ada Host Development Bystem for SPARCSystems, /ersion 4.1 BASE F901128W1.11090) FeleSoft FeleGen2 Ada Cross Development Bystem for SPARCSystems, /ersion 4.1 BASE F901128W1.11090)	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#91032511.11140) *Validated by Registration TeleSoft TeleGen2 Ada Cross Development System for SPARC	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133°, MVME136° (88020); MVME1414° (88030); and MVME165° & MVME167° (880
Validated by Registration veleSoft releSoft releGen2 Ada Host bevelopment bystem for sPARCSystems, version 4.1 BASE releGen2 Ada Host bevelopment bystem for sPARCSystems, version 4.1 BASE releGen2 Ada Host bevelopment bystem for sPARCSystems, version 4.1 BASE releGen2 Ada releG	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME13 MVME136* (88020); MVME141 MVME147* (88030); and MVME165* & MVME167* (880 board families (bare
Validated by Registration releasoft	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K (#91032511.11140) *Validated by Registration TeleSoft TeleGen2 Ada Cross Development System for SPARC	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (88030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133*, MVME138* (88020); MVME14141 MVME147* (88030); and MVME165* & MVME167* (880
Validated by Registration FeleSoft FeleGen2 Ada Host Development System for SPARCSystems, Fersion 4.1 BASE P801128W1.11080) Validated by Registration FeleGen2 Ada Host Development System for SPARCSystems, Fersion 4.1 BASE P801128W1.11080)	Sun Microsystems Sun-4, SPARCeener, SPARCestation, & SPARCengine computer families (under SunOS 4.2, release 4.1) Solbourne Series 5 & 5E; and S4000 (under OS/MP 4.1) MicroVAX 3800 (under	Any Host Motorola MVME 133A-20	*Validated by Registration TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 (BASE #91032511.11139) TeleSoft TeleGen2 Ada Cross Development System, Version 3.1 for SPARC to 68K	VAX 4000-300 (under VMS 5.4-3) Sun-4/60 (under SunOS 4.1) Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under	(bare machine, using TeleAda-EXEC 1.0) Motorola MVME147 (68030) (bare machine, using TeleAda-EXEC 1.0) Motorola MVME133°, MVME13 MVME136° (68020); MVME141 MVME147° (68030); and MVME165° & MVME167° (6804) board families (bare

VENDOR, COMPI & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILE & CERTIFICATE #		TARGET MACHINE & (OS)
TeleSoft TeleGen2 Ada Host Development System, Version 4.1, for Macil Systems (#81072111.11194)	Apple Macintoeh lifx (under A/UX 2.0)	Same as Host	TLD Systems, Ltd. TLD Sun-4/MIL-STD-175 0A Ada Compiler System, Version 2.9.0 (#920319W1.11240)	Sun-4/75 (under SunOS, Version 4.1.1)	TLD MIL-STD-1750A Multiple Processor Simulator (bare machine simulation, using TLDrix Real Time Executive, Version 1.0.0, and executing on the Host)
"Validated by Registrati TeleSoft TeleGen2 Ada Host Development System for Macil Systems, Version 4.1 (BASE	ion Apple Macintosh II family, & SE/30 (under A/UX Release 2.0)	Any Host	TLD Systems, Ltd. TLD RISC8000/MIL-STD- 1750A Ada Compiler System, Version 2.9.0 (#920319W1.11241)	IBM RISC System 6000, Model 530 (under ADX, Version 3.1)	TLDmps MIL-STD-1750A Multiple Processor Simulator, (bare machine simulation, using TLDrtx Real Time Executive, Version 1.0.0, and executing on the Host)
#91072111.11194)			*Validated by Registratio		
TeleSoft TeleGen2 Ada Development System for VAX to 1750A, Version 3.25	MicroVAX 3800 (under VMS Version 5.4)	MiL-STD-1750A ECSPO ITS RAID Simulator, Version 6.0 (bare machine simulation, executing on the Host)	TLD Systems, Ltd. TLD RISCO00/MIL-STD- 1750A Ada Compiler System, Version 2.9.0 (BASE	IBM RISC System 8000 series (under ADL, Version 3.1)	IBM User Console with IBM Generic VHSIC Spaceborne Computer (bare machine, using TLDrtx Real Time Execution, Version 1.0.0)
(#911028/1.11229)			#920319W1.11241)		
TeleSoft TeleGen2 Ada Compliation System for VAX to 80880, Version	MicroVAX 3800 (under VMS Version 5.4)	intel EXV 980 MC-MIL (1980 XA) (bare machine, using Hughes O.S. Ada RTS Interface)	TLD Systems, Ltd. TLD VAX/MIL-STD-1750A Ada Compiler System, Version	MicroVAX 3500 (under VMS, Version 5.1)	TLD MIL-STD-1750A Multiple Processor Simulator (bare machine simulation, using TLDrtx Real Time Executive, Version 1.0.0, and executing
4.1 (#911213 1.11235)			2.9.0 (#920319W1.11242)		on the Host)
TeleSoft	Sun-4/690 (under SunOS	Intermited Davies Technology	Middledad by Confedentia	_	
TeleGen2 Ada Cross Development System Version 4.1.1 for SUN-4 to eMIPS (#92102911.11295)	Release 4.1.2)	Integrated Device Technology IDT7RS301 System (R3000/R3010) (bare machine)	*Validated by Registration TLD Systems, Ltd. TLD VAX/MIL-STD-1750A Ada Compiler System, Version 2.9.0 (BASE #820319W1.11242)	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 4000, VAX 6000, VAX 8000, & VAX 8000 Series of computers (under VMS 5.4)	IBM User Console with IBM Generic VHSIC Spaceborne Computer (bare machine, using TLDrtx Real Time Execution, Version 1.0.0)
Texas instruments MIPS-Ada, Version	MIPS M/2000 (under RISC/os 4.02)	Ti DP32 R3000 Processor	TIO Duriama Lid	ND 0000 (050 (under ND 15V	TLDmps MIL-STD-1750A
3.0 (#901030W1.11052) Texas Instruments	MicroVAX 3400 (under VMS	(bare machine, using Ti DP32 RTE Version 1.0)	TLD Systems, Ltd. TLD HP 9000/MIL-STD-1750 A Ada Compiler System, Version	HP 9000/350 (under HP-UX, Version 7.0)	Multiple Processor Simulator (bare machine simulation, using TLDrix Real Time Executive, Version 1.0.0,
∏ Ada, Version 1.0 (≠910403W1.11135)	5.3-1)	(bare machine, using TI Executive and Runtime Services (EARS) Version 1.0)	2.9.0 (#920319W1.11243)		and executing on the Host)
TLD Systems, Ltd. TLD Sun-4/MIL-STD-175 DA Ada Compiler System, Version	Sun-4/75 (under SunOS, Version 4.1.1)	Rockwell international RI-1750AB Brassboard Development System (bare machine, using TLDrtx Real Time Executive, Version	U.S. Air Force AFCAS 1750A Ada Compiler, Version 1.0 (#910425W1.11142)	VAXstation 3100 (under VMS Version 5.3)	Air Force RAID MiL-STD-1750 simulator (bare machine simulation, executing on the Host)
2.9.0		1.0.0)	*Validated by Registration		
(#920319W1.11237) ILD Systems, Ltd.	Data General MV/32 20000-2	Same as Host	U.S. Air Force AFCAS 1750A Ada Compiler, Version	DEC VAXstation 3100 (under VMS Version 5.4)	Air Force RAID MIL-STD-1750: simulator (bare machine simulation, executing on the
TLD MV/MV Ada Compiler System, /ersion 2.9.0 (#920319W1.11238)	(under AOS/VS II, Version 2.03)		1.1 (BASE #910425W1.11142)		Host)
ILD Systems, Ltd. ILD Sun-4/MIL-STD-175 DA Ada Compiler System, Version 2.9.0	Sun-4/75 (under SunOS, Version 4.1.1)	Honeywell Program Development Unit (PDU) with Honeywell Generic VHSIC Spaceborne Computer (GVSC) MIL-STD-1750A (bare machine, using TLDrtx Real Time	U.S. Air Force AFCAS 1750A/XMEM Ada Compiler, Version 1.0 (#910425W1.11143) *Validated by Registration	VAXstation 3100 (under VMS Version 5.3)	Air Force RAID MIL-STD-1750, simulator (bare machine simulation, executing on the Host)
#920319W1.11239)		Executive, Version 1.0.0)	U.S. Air Force AFCAS 1750A/XMEM Ada Compiler, Version 1.1	DEC VAXstation 3100 (under VMS Version 5.4)	Air Force RAID MIL-STD-1750, simulator (bare machine simulation, executing on the Host)

VENDOR, COMPIL & CERTIFICATE :		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
					
U.S. NAVY	VAX 8800 (under VMS Version	Same as Host	U.S. NAVY	VAX Cluster (comprising VAX	VHSIC Processor Module (VF
AdaVAX, Version	5.3)		Ada/M, Version	8550, 8800, & 8650	AN/AYK-14 (bare machine)
5.0 (/OPTIMIZE)	,		4.5 (/OPTIMIZE)		machines) (under VMS
(#910517S1.11162)			(#920918S1,11273)		Version 5.3)
			,		ŕ
U.S. NAVY	VAX 8600 (under VMS Version	Same as Host	U.S. NAVY	VAX Cluster (comprising VAX	Enhanced Processor (EP)
AdaVAX, Version	5.3)		Ada/M, Version	8550, 8600, & 8650	AN/UYK-44 (bare machine)
5.0			4.5		machines) (under VMS
(/NO_OPTIMIZE)			(/NO_OPTIMIZE)		Version 5.3)
(#91051781.11163)			(#920918S1.11274)		
LLO NAVO	1/47/44/2005 6	Same as Host	LLO MANO	MAY Ourster (comprise MAY	VHSIC Processor Module (VP
U.S. NAVY	VAX-11/785 (under VMS	Same as nost	U.S. NAVY	VAX Cluster (comprising VAX 8550, 8600, & 8650	
AdaVAX, Version 5.0 (/OPTIMIZE)	Version 5.3)		Ada/M, Version 4.5	8330, 8600, & 8630	AN/AYK-14 (bare machine) machines) (under VMS
(#910517S1.11184)			(/NO OPTIMIZE)		Version 5.3)
(501001701.11104)			(#920918S1.11275)		voiacii 0.0j
U.S. NAVY	VAX-11/785 (under VMS	Same as Host	(10001001111210)		
AdaVAX, Version	Version 5.3)		UNISYS	UNISYS 2200/600 (under	Same as Host
5.0	,		Corporation	OS1100, Version 43R2)	
(/NO OPTIMIZE)			UCS Ada, Version		
(#910517\$1.11165)			1R1		
			(#910510S1.11161)		
U.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-43 (single cpu) (bare			
Ada/L, Version	5.3)	machine)	*Validated by Registration		
4.0 (/OPTIMIZE)			UNISYS	UNISYS 1100/90, 2200/100,	Any Host
(#910626S1.11172)			Corporation	/200, /400, /600, & /900	
			UCS Ada, Version	(under OS 1100, Versions	
U.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-43 (EMR) (bare	1R1	43R2 & 43R3, as supported)	
Ada/L, Version	5.3)	machine)	(BASE		
4.0 (/OPTIMIZE)			#910510S1.11161)		
(#910826S1.11173)					
			Verdix	DECstation 3100 (under	Same as Host
U.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-44 (EMR) (bare	Corporation	ULTRIX 3.1)	
Ada/M, Version	5.3)	machine)	VAda-110-6161,		
4.0 (/OPTIMIZE)			Version 6.0.2		
(#910626S1.11174)			(#900228W1.11001)		
U.S. NAVY	VAX 8550 (under VMS Version	AN/AYK-14 (bare machine)	*Validated by Registration		
Ada/M, Version	5.3)	ANATATA (DES MESIME)	Verdix	DECetation 2100, 5000;	Any Host
4.0 (/OPTIMIZE)	0.0)		Corporation	DECsystem 5400, 5810, 5820,	Ally I look
(#910626S1.11175)			VAda-110-6161,	5830, 5840 (under ULTRIX	
(501002001111170)			Version 6.0.2	3.1)	
U.S. NAVY	VAX-11/785 (under VMS	AN/UYK-43 (single cpu) (bare	(BASE	۵.,	
Ada/L, Version	Version 5.3)	machine)	#900228W1.11001)		
4.0 (/OPTIMIZE)	,	,	,		
(#910626\$1.11176)			*Validated by Registration		
			Verdbc	DECstation 2100, 3100, 5000	Any Host
U.S. NAVY	VAX-11/785 (under VMS	AN/UYK-43 (EMR) (bare	Corporation	& 5200; and DECsystem 3100,	
Ada/L, Version	Version 5.3)	machine)	VADS DEC-RISC,	5000, 5100, 5200, 5400,	
4.0 (/OPTIMIZE)			Ultrix 4.0,	5500, 5810, 5820, 5830 &	
(#910626S1.11177)			VAda-110-6161,	5840 (under ULTREX 4.0)	
			Version 6.0		
U.S. NAVY	VAX-11/785 (under VMS	AN/UYK-44 (EMR) (bare	(BASE		
Ada/M, Version	Version 5.3)	machine)	#900228W1.11001)		
4.0 (/OPTIMIZE)					
(#910826S1.11178)			*Validated by Registration		
			Verdix	DECetation 2100, 3100, 5000	Any Host
U.S. NAVY	VAX-11/785 (under VMS	AN/AYK-14 (bare machine)	Corporation	& 5200; and DECsystem 3100,	
Ada/M, Version	Version 5.3)		VADS DEC-RISC,	5000, 5100, 5200, 5400,	
4.0 (/OPTIMIZE)			Ultrix 4.1,	5500, 5810, 5820, 5830 &	
(#910826S1.11179)			VAda-110-6161,	5840 (under ULTRIX 4.1)	
U.S. NAVY	VAVeteller 4000 (under 1840	Same as Heat	Version 6.0		
AdaVAX, Version	VAXstation 4000 (under VMS	Same as Host	(BASE #900228W1.11001)		
5.5 (/OPTIMIZE)	Version 5.5)		PB00220W1.11001)		
(#920918S1.11270)			*Validated by Registration		
			Verdix	DECatation 2100, 3100, 5000	Any Host
U.S. NAVY	VAXstation 4000 (under VMS	Same as Host	Corporation	& 5200; DECeystem 3100,	
AdaVAX, Version	Version 5.5)		VADS DEC-RISC,	5000, 5100, 5200, 5400,	
5.5	,		Ultrix 4.2,	5500, 5810, 5820, 5830 &	
(/NO_OPTIMIZE)			VAda-110-6161,	5840 (under Ultrix 4.2)	
(#920918S1.11271)			Version 6.0		
·			(BASE		
J.S. NAVY	VAX Cluster (comprising VAX	Enhanced Processor (EP)	#900228W1.11001)		
da/M, Version	8550, 8600, & 8650	AN/UYK-44 (bare machine)	,		
1.5 (/OPTIMIZE)	machines) (under VMS		Verdix	VAXsystem 3100 (under	Same as Host
#920918S1.11272)	Version 5.3)		Corporation	ULTRIX 3.1)	
			VAda-110-0202,		
			Version 6.0		
			(#900228W1.11002)		

& CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
"Validated by Registratic Verdix Corporation VAda-110-0202, Version 6.0 (BASE #900228W1.11002)	DEC VAX-11, MicroVAX, VAXserver, VAXstation, VAX 6000, VAX 8000 & VAX 6000 series (under ULTRIX 4.0)	Any Host	*Validated by Registration Verdbx Corporation VADS Sun3 SunOS => 68K, VAda-110-13125, Version 6.0 (BASE	n Sun-3/50, /60, /80, /150, /160, /260, /280, /470 & /480 (under SunOS 4.0 & 4.1)	Cyclone CVME 44, CVME 48 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK88/V30 Series, V2E Series & V2F Series; Integrated Solutions
"Validated by Registration Verdix Corporation VAda-110-0202, Version 8.0 (BASE #900228W1.11002) Verdix Corporation	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under ULTRX 4.2) Sun 3/280 (under SunOS 4.0)	Any Host Same as Host	#900510W1.11007)		VME68/C20, VME68/C30, VME68225 & Liberator SBC; MetrixMS-CPU220 & MS-CPU320 MizarMZ7120, MZ7124, MZ7130, MZ8120 & MZ8130; Su Microsystems 3E Board Set; Motorola MVME147 Series & MVME141 (MC88030), MVME135 Series, MVME134, MVME135 & MVME136 (MC88020), MVME-111
VADS Sun3 SunOS, VAde-110-1313, Version 6.0					MVME-165 & MVME-167; Tadpol TP32V & TP33M (bare machines)
(#900510W1.11003) "Validated by Registration	on.		Verdix Corporation VADS IBM RISC	IBM RISC System/6000 Model 530 (under AIX 3.1)	Same as Host
Verdix Corporation VADS Sun-3 Sun OS, VAda-110-1313, Version 6.0 (BASE	Sun-3/50, /60, /80, /150, /160, /260, /280, /470 & /480 (under SunOS 4.0 & 4.1)	Any Host machine (under same OS version)	System/6000, AIX 3.1, VAda-110-7171, Version 6.0 (#900726W1.11017) *Validated by Registration		
#900510W1.11003)	IBM PS/2 Model 80 (under	hate 1,000 and 140 ft	Verdix Corporation VADS IBM RISC	IBM RISC System/8000 Models 320, 520, 540, 730 & 930	Any Host
Corporation VADS IBM PS/2 AIX => Intel 80386, VAds-110-35315, Version 6.0 (#900510W1.11004)	ADX 1.1)	intel ISBC 386/12 (bare machine)	System/6000, ADX 3.1, VAda-110-7171, Version 6.0 (BASE #900726W1.11017)	(under AIX 3.1)	
Verdix Corporation VADS IBM PS/2 AIX => 68K, VAda-110-35125,	IBM PS/2 Model 80 (under AIX 1.1)	Motorola MVME133A-20 (MC88020) (bare machine)	"Validated by Registration Verdix Corporation VADS IBM RISC System/8000, AIX	IBM RISC System/8000 Models 220, 320, 320H, 340, 350, 520, 520H, 530H, 540, 550, 560, 730, 930, & 950 (under	Any Host
Version 8.0 (#900510W1.11005) Verdix	Sun 4/280 (under SunOS 4.0)	Same as Host	3.1, VAda-110-7171, Version 6.0 (BASE	AIX 3.2)	
Corporation VADS Sun-4 SunOS, VAda-110-4040,			#900726W1.11017} Verdix	HP 9000/350 (under HP-UX	Same as Host
Version 6.0 (#900510W1.11006)			Corporation VADS HP 9000/300, HP-UX 7.0,	7.0)	
*Validated by Registratio Verdix Corporation VAda-110-4040,	n Sun-4/20, /65, /110, /150 & /260; SPAFICaerver 310, 330, 370, 390, 470 & 490;	Any Host	VAde-110-1515, Version 6.0 (∲900726W1.11018)		
Version 6.0 (BASE #900510W1.11008)	SPARCetation SLC, 1, 1+, 2, 310, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)		*Validated by Registration Verdix Corporation VADS HP 9000/300, HP-UX 7.0,	HP 9000 Series 300 Models 310, 320, 330, 340, 350, 380 & 370 (under HP-UX 7.0)	Any Host
Verdix Corporation VADS Sun3 SunOS => 68K, VAde-110-13125,	Sun 3/280 (under SunOS 4.0)	Motorola MVME147 (MC68030) (bare machine)	VAda-110-1515, Version 6.0 (BASE #900726W1.11018)		
Version 6.0 (≠900510W1.11007)			Verdix Corporation VADS Prime EXL/320, UNIX System V/386 3.2, VAda-110-3232, Version 6.0 (#900726W1.11019)	Prime EXL/320 (under UNIX System V/386 3.2)	Same as Host
			Verdix	MicroVAX 3100 (under	Same as Host

VENDOR, COMPILI		TARGET	VENDOR, COMPILE		TARGET
& CERTIFICATE	MACHINE & (OS)	MACHINE & (OS)	& CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
Corporation VADS VAX/VMS 5.2, VAde-110-0303, Version 8.0 (#900726W1.11020) "Validated by Registration Verdix Corporation VADS VAX/VMS 5.3, VAde-110-0303, Version 8.0 (BASE #900726W1.11020)	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)	Any Host	*Validated by Registration Verdix Corporation VADS VAX/ULTRIX => 68K, ULTRIX 3.1, VAda-110-02125, Version 6.0 (BASE #900726W1.11023)	n DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under Ultrix 3.1)	Cyclone CVME 44, CVME 48 CVME 48; Force CPU 21, CPI 29, CPU 30, CPU 31, CPU 32 CPU 37 & Golden Triangle Firepower; Heurikon HK68/V3 Series, V2E Series & V2F Series; Integrated Solutions VME68/C20, VME68K30, VME68225 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320 & MS-CPU320, Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130; Sun
/erdix Corporation /ADS /AZ/VMS = >68k, VMS 3.2, /Ade-110-03125, /ersion 6.0 #900726W1.11021)	MicroVAX 3100 (under VAX/VMS V5.2)	Motorola MVME147 (MC88030) (bare machine)			Microsystems 3E Board Set; Motorola MVME147 Series & MVME141 (MC88030), MVME Series, MVME134 & MVME13 (MC88020); Tedpole TP32V & TP33M (bare machines); Tekti MV System, MV 68020 Suppo System using TekDB Version 5.0.2 emulation software (barr machine simulation)
Validated by Registration /erdix Corporation /ADS VAX/VMS => 88K, VMS 5.2, /Ada-110-03125,	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 6000 & VAX 9000 Series of computers (under VMS 5.2)	Cyclone CVME 44, CVME 48 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK88/V30	Verdix Corporation VADS DEC-RISK = > 68k, Ultrix 3 VAds-110-61125, Version	•	Motorola MVME147 (MC8803 (bare machine)
Version 8.0 (BASE \$900728W1.11021)		Series, VZE Series & VZF Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberator SBC; Metrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series & MVME141 (MC88030), MVME133 Series, MVME134, MVME135 & MVME136 (MC88020), MVME-185 & MVME187; Tadpole TP32V & TP33M (bare machines)	(#900726W1.11024) *Validated by Registration Verdix Corporation VADS DEC-RISC => 68K, Ultrix 4.0, VAde-110-81125, Version 6.0 (BASE #900726W1.11024)	DECatation 2100, 3100, 5000 & 5200; and DECaystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840 (under ULTRIX 4.0)	Cyclone CVME 44, CVME 48 CVME 48; Force CPU 21, CPI 29, CPU 30, CPU 31, CPU 32 CPU 37 & Golden Triangle Firepower; Heurikon HK88/V3 Series, V2E Series & V2F Series; Integrated Solutions VME68425 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130,
erdix torporation ADS AX/VMS = > Intel 86, VMS 5.2, Ada-110-03315, Version #900728W1.11022)	MicroVAX 3100 (under VAX/VMS V5.2) 6.0	Intel ISBC 386/32 (bare machine)			MZ8120 & MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series (MC88030), MVME133 Series, MVME134 & MVME135 (MC88020); Tedpole TP32V & TP33M (bare machines)
Validated by Registration erdix corporation ADS AX/VMS = > Intel	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under	intel ISBC 386/32 (bare machine)	Verdix Corporation VADS IBM RISC System/6000 = > 68k, AIX VAda-110-71125, Version		Motorola MVME147 (MC6803) (bare machine)
86, VMS 5.3, Ada-110-03315, Version BASE 900726W1.11022)	VMS 5.3) 6.0		(#900726W1.11025) *Validated by Registration Verdix Corporation	IBM RISC System/6000 Models 320, 520, 540, 730 & 930	Cyclone CVME 44, CVME 48 CVME48; Force CPU 21, CPU
rerdix corporation IADS IAX/Ultrix = > 68k, Iltrix 3.1, Ada-110-02125, resion 6.0 \$900728W1.11023)	MicroVAX 3100 (under Ultrix 3.1)	Teldronix MV System, MV 68020 Support System, using TeldB Version 5.0.2 emulation software (bare machine simulation)	VADS IBM RISC System/8000 => 68K, ADK 3.1, VAda-110-71125, Version 8.0 (BASE #900726W1.11025)	(under ADX 3.1)	CVMEAS, FORE CFU 21, CFU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK68/V3 Series, VZE Series & VZF Series; Integrated Solutions VME68/C0, VME68/C0, VME68/C0, VME68/C0, VME68/C0, VME68/C0, VME68/C0, VME7/U20 & MS-CPU320 & MS-CPU320 & MZF120, MZF120, MZF122, MZF124, MZF130, MZB120 & MZB130; Sun Microsystems 3E Board Set; Motorola MVME133 Series, MVME134, MVME135 & MVMESeries; and Tadpole TP32V & Series; and Tadpole TP32V &

ystem/8000 Model AIX 3.1)	Intel ISBC 386/116 (bare machine)	Verdix Corporation VADS Sequent Balance DYNIX V3.0, VAde-110-2323, Version 6.0	Sequent Balance 6000 (under DYNIX Version 3.0)	Same as Host
rdem/8000 Models		(#901129W1.11096)		
retern /8000 Markets		Verdix	Sun-4/280 (under SunOS 4.0)	Motorola MVME147 (68030)
0, 730 & 830 L1)	Intel ISBC 388/116 (bare machine)	Corporation VADS Sun4 => 68K, Sun OS 4.0, VAds-110-40125, Version 6.0 (#901129W1.11097)		(bare machine)
		 Validated by Registration Verdix 	n Sun-4/20, /65, /110 & /150 ,	Cyclone CVME 44, CVME 48 &
/stem/8000 Models 0H, 340, 350, 330H, 540, 550, IO, & 950 (under	Intel ISBC 486/125 (bare machine)	Corporation VADS 8un4 => 68K, Sun OS 4.0, VAda-110-40125, Version 8.0 (BASE #901129W1.11097)	SAIR-25, 740 & 710, 710 & 710, 710, 710, 710, 710, 710, 710, 710,	CYME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurliton HK88/V30 Series, V2E Series & V2F Series; integrated Solutions VME68/C20, VME68/C30, VME68/C30, VME68/C30, VME68/C30, VME7120, MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130; Sun
00 (under VMS	Intel ISBC 386/116 using a WEITEK 3167 fpu (bare machine)	1		Microsystems 3E Board Set; Motorola MVME110 (MC88000), MVME133 Series, MVME134, MVME135 & MVME138 (MC88020), MVME147 Series & MVME141 (MC88030), MVME-1 & MVME-167 (MC88040); Tadpo TP32V & TP33M (bare machine
		*Validated by Registration		
, VAXserver, MicroVAX, VAX 300 & VAX 9000 nputers (under	Intel ISBC 388/116 using a WEITEK 3167 fpu (bare machine)	Verdix Corporation VADS Sun4 => 68K, Sun OS 4.1, VAda-110-40125, Version 6.0 (BASE #901129W1.11097)	Sun Microsystems Sun-4, SPARCeerver, SPARCestation, & SPARCengine computer families (under SunOS 4.1)	Cyclone CVME 44, 48, & 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37, & Golden Triangle Firepower; Heurliton HK88/V2E Series, /V2F Series, & /V30 Series; Integrated Solutions VME68K20, 68K30, 68225, & Liberator SBC; Matrix MS-CPU220 & MS-CPU320; Miz MZ7120, MZ7122, MZ7124,
tem (under I V/386, Release	Same as Host			MZ7130, MZ8120, MZ8130, & CPU330; McMc10al MVME133 Series, MvME134, MvME135, & MvME147 Series; Sun Microsystems 3E board set; and Tadpole Technology TP324 & TP33M (bare machines)
		Verdix	Sun-4/260 (under SunOS 4.0)	Sun-3/280 (under SunOS 4.0)
320, 3335, 3345, 3450, & 3550 System V/486,	Any Host	Corporation VADS Sun-4 => Sun-3, Sun OS 4.0, VAda-110-4013, Version 8.0 (#901129W1.11098)		
		*Validated by Registration		
320, 3335, 3345, 9450, & 3550 UNIX System V, AST Premium er UNIX System	Any Host	Vendix Corporation VADS Sun-4 => Sun-3, Sun OS 4.0, VAde-110-4013, Version 6.0 (BASE	Sun-4/20, /65, /110, /150, /260 & /280; SPARCeerver 330, 370, 390, 470 & 490; SPARCstation SLC, 1, 1+, 2, 330 & 370; and SPARCengine 1 VME (under SunOS 4.1)	Sun-3/50, /60, /60, /150, /160, /260, /280, /470 & /480 (under SunOS 4.1)
UN A	iO, & 3550 IX System V, ST Premium	io, & 3550 IX System V, ST Premium JNIX System	Version 6.0 (#901129W1.11098) *Velidated by Registration Verdix Corporation 0, 3335, 3345, Any Host VADS Sun-4 => 50, & 3550 Sun-3, Sun OS IX System V, 4.0, ST Premium VAda-110-4013, UNIX System V Version 6.0	Version 8.0 (#901129W1.11098) *Validated by Registration Verdix Sun-4/20, /65, /110, /150, Corporation /260 & /280; SPARCeenver 0, 3335, 3345, Any Host VADS Sun-4 => 330, 370, 390, 470 & 490; (0, & 3550 Sun-3, Sun OS SPARCstation SLC, 1, 1+, 2, X System V, 4.0, 330 & 370; and SPARCengine ST Premium VAds-110-4013, 1 VME (under SunOS 4.1) UNIX System 4.0) (BASE

VENDOR, COMPIL & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	MACHINE & (OS)	TARGET MACHINE & (OS)
/erdix Corporation /ADS AT&T 382/600G UNIX System V, Release 3.2.2, /Ada-110-5151, /ersion 6.0	AT&T 3B2/800G (under UNIX System V, Release 3.2.2)	Same as Host	"Validated by Registration Verdix Corporation VADS BCS/88K, VAda-110-8080, Version 6.1 (BASE	n Motorola 8000 Delta Series (MC88000), ali models (under Unix System V/88, R32V3)	Any Host
#901129W1.11099)			#901129W1.11101} Verdix	Sun-4/490 (under SunOS 4.1)	SPARCengine 1E (bare
/erdix Corporation /ADS HP-9000/300 = > 68K, HP-UX 7.0 VAda-110-15125, /ersion 6.0 #901129W1.11100)	HP 9000 Model 350 (under HP-UX 7.0)	Motorola MVME133A (68020) (bare machine)	Corporation VADS Sun4 => 8PARC, Sun OS 4.1, VAda-110-40440, Version 6.0 (#901129W1.11102)	machine)	3 (2.00
Mallalaka aktor Danisha aktor			Ministral by Decisioniles		
Validated by Registration /erdix /erdix /croix /ADS HP-9000/300 => 68K, HP-UX /.0, /.0, //Ada-110-15125, /ersion 6.0 BASE #801129W1.11100)	n HP 9000 Series 300 Models 310, 320, 330, 340, 350, 360 & 370 (under HP-UX 7.0)	Cyclone CVME 44, CVME 48 & CVME 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK88/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20, VME68K30, VME68225 & Liberator SBC: Matrix	"Velidated by Registration Verdix Corporation VADS Sun4 = > SPARC, Sun OS 4.1, VAda-110-40440, Version 6.0 (BASE #901129W1.11102)	Sun-4/20, /65, /110, /150 & /260; SPARCeenver 330, 370, 360, 470 & 490; and SPARCatation SLC, 1, 1+, 2, 330 & 370 (under SunOS 4.1)	SPARCengine 1E (bare machine)
		MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130; Sun Microsystems 3E Board Set; Motorola MVME147 Series (MC88030), MVME133 Series, MVME134 & MVME135 (MC88020); Tadpole TP32V & TP33M (bare	Verdix Corporation VADS Sun-3 SunOS => 68k, VAda-110-13140, Version 6.0 (#910517W1.11149)	Sun 3/280 (under SunOS Release 4.0)	Motorola MVME165 (68040) (bare machine)
		machines)	*Validated by Registration Verdix	Sun Microsystems Sun-3	Motorola MVME 165 (MC88
(erdix Corporation /ADS BCS/88K, (Vilion DGUX 4.3, /Ada-110-8080, /ersion 6.1 #901129W1.11101)	Data General AVIION Model 5120 (under DG/UX 4.3)	Same as Host	Corporation VADS Sun-3 SunOS => 88k, VAda-110-13140, Version 6.0 (BASE #910517W1.11149)	computer family (under SunOS 4.1)	(bare machine)
Validated by Registration	1		Verdix	DECatation 5000-200 (under	Lockheed Sanders STAR M
erdix corporation ADS BCS/88K, Viion DGUX 4.3, Ada-110-8080, ersion 6.1	DG AVION Models 4000, 4000GHi, 4020, 4100, 4120, 5010, 5200, 5220, 5240, 5300, 5310, 5400, 5402, 5410, 5412, 6200 & 6220 (under DG/UX 4.3)	Any Host		ULTRIX V4.0)	(R3000) (bare machine)
BASE 901129W1.11101}			*Validated by Registration		
Validated by Registration	_	Agus Marek	Verdix Corporation	DEC DECetation & DECeystem computer families (under	Lockheed Sanders STAR M (R3000) (bare machine)
ADS BCS/88K Viion DGUX 5.4, Ada-110-8080, ersion 6.1 BASE	Data General AVIION Models 4000, 4000GHI, 4020, 4100, 4120, 5010, 5200, 5220, 5240, 5300, 5310, 5400, 5402, 5410, 5412, 6200 & 6220; MODCOMP Real Star Family (under DG/UX 5.4)	Any Host	VAGS DECHROL = 9 MIPS R3000, VAds-110-61620, Version 6.1 (BASE #910517W1.11150)	ULTRIX 4.0)	
901129W1.11101)			Corporation	MicroVAX 3800 (under VMS V5.2)	Integrated Device Technologi IDT7RS302 (bare machine)
Validated by Registration erdix corporation ADS BCS/88K, Ada-110-8080,	MODCOMP Real Star Family (under REAL/IX C.0.2)	Any Host	VADS VMS => MIPS R3000, VAda-110-03620, Version 6.1 (#910517W1.11151)		
ersion 6.1 BASE 901129W1.11101)			Corporation VADS VMS => MIPS R3000,	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under VMS 5.3)	Integrated Device Technological IDT7RS302 (bare machine)

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VENDOR, COMPIL & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix Corporation VADS Sun-4 SunOS => 88t, VAda-110-40140, Version 8.0 (#910517W1.11152)	Sun 4/280 (under SunOS Release 4.0)	Motorola MVME185 (68040) (bare machine)	"Validated by Registration Verdix Corporation VADS 388/488 System V, Rel. 3.2, VAds-110-3232,	Any Computer System Comprising: cpu: any that executes the intel 80386/i486 instruction set (under Any operating system compatible with Unix System	Same as Host
#4-11-4-4-4-D1-4-4-4			Version 6.0	V Release 3.2)	
*Validated by Registratio Verdix Corporation	Sun Microsystems Sun-4, SPARCeerver & SPARCistation	Motorola MVME165 (68040) (bare machine)	(BASE #910517W1.11155)		
VADS Sun4 SunOS => 68k, VAda-110-40140,	computer families (under SunOS 4.1)		Verdix Corporation VADS Sun-4 SunOS	8un 4/280 (under SunOS 4.0.3)	ironics IV9001 board (AMD 29000) (bare machine)
Version 6.0 (BASE #910517W1.11152)			=> AMD 29K, 6.0 VAda-110-40525, Version 6.0		
7010017W1.11102)			(#910517W1.11156)		
Verdix Corporation	DECetation 2100 (under	Motorola MVME181 (bare	Malidated by Designation		
VADS DEC-RISC => 88k, VAda-110-61680,	ULTREX V4.0)	machine)	*Validated by Registration Verdix Corporation	Sun Microsystems Sun-4, SPARCeerver & SPARCetation	ironics IV9001 board (AMD 29000) (bare machine)
Vadil-110-61680, Version 6.1 (#910517W1.11153)			VADS Sun4 SunOS => AMD 29K, VAde-110-40525, Version 6.0	computer families (under SunOS 4.1)	
*Validated by Registration	n		(BASE		
Verdix Corporation VADS DEC-RISC =>	DEC DECetation & DECaystem computer families (under ULTRIX 4.0)	Motorola MVME181 (88000) (bare machine)	#910517W1.11156) Verdix	Intel 402 (under SCO UNIX	Same as Host
68k, VAda-110-61680, Version 6.1	OLINA 4.0J		Corporation VADS UNIX System V/486, SCO UNIX	3.2/2.0)	Salle as Float
(BASE ≠910517W1.11153)			3.2, VAda-110-3232,		
Verdix Corporation	Sun 4/20 (under SunOS 4.1.1)	Motorola MVME147SA (bare machine, using vxWorks 5.0)	Version 6.1 (#910517W1.11157)		
VADSworks Sun4 => 68k			*Validated by Registration		
vAda-115-40800, Version 2.0 (#910517W1.11154)			Verdix Corporation VADS 388/488 System V, Rel.	Any Computer System Comprising: cpu; any that executes the intel 80386/I486 instruction set	Same as Host
*Validated by Registration	1		3.2, VAda-110-3232,	(under Any operating system compatible with Unix System	
Verdix Corporation VADSworts Sun4 => 88k	Sun Microsystems Sun-4, SPARCserver & SPARCstation computer families (under SunOS 4.1)	Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 33, CPU 37, & Golden Triangle	Version 6.1 (BASE #910517W1.11157)	V Release 3.2)	
vAda-115-40800, Version 2.0 (BASE	Sunos 4.1)	Firepower, General Micro Systems GMSV17 & GMSV37; Heurikon HK88/V20, /V2E,	Verdix Corporation	MIPS RC3230 (under RISC/os 4.52)	Same as Host
/910517W1.11154)		/V2F, /V2FA, /V30, /V30XE, /V3E, & /V3F; tronics V-3201a, 3204a, 3220, & 3230; Matrix MS-CPU320;	VADS MiPS, VAde-110-6262, Version 6 (#910920W1.11200)	.1	
		Mizar MZ7122 & MZ7124; Motorola MVME133 Series, MVME135, MVME135, MVME141, MVME143, & MVME147; Radstone PME 68-25 & 68-31; SBE VLAN-e & VPU30; Sun			Motorola MVME165 (68040) (bare machine)
		Microsystems 3E; and Tadpole Technology TP32V-4MB (bare		DEC VAX-11, VAXserver,	Motorola MVME165 (68040)
forcli x	Zenith Z-488/25E (under SCO	machines, using vxWorks 5.0) Same as Host	VADS VAX/VMS =>	VAXstation, MicroVAX, VAX 6000, VAX 8000, & VAX 9000 Series of computers (under	(bare machine)
Corporation /ADS UNIX System //486, SCO UNIX 3.2, /Ada-110-3232, Version 6 #910517W1.11155)	UNIX i388 release 3.2)			VMS 5.3)	
Validated by Registration			Corporation	IBM RISC System/6000 Model 530 (under AIX 3.1)	IDT 7RS302 (R3000) (bare machine)
/erdix Corporation /ADS UNIX System //488, SCO UNIX 3.2,	Zenith Z-488/33E (under SCO UNIX i386 release 3.2)	Same as Host	VADS IBM RS/6000 => MIPS R3000, VAda-110-71620, Version 6.1		
/Ada-110-3232, Version 6 BASE	.0		(#910920W1.11202)		
#910517W1.11155)			*Validated by Registration		

VENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix Corporation VADS IBM RS/6000 AIX 3.1, VAda-110-71620, Version 6.1 (BASE #810820W1.11202)	IBM RISC System/6000 Models 320, 520, 540, 730, & 930 (under AIX 3.1)	IDT 7RS302 (R3000) (bare machine)	*Validated by Registration Verdix Corporation VADS Sun-4 SunOS -> CPU32, VAde-110-40150, Version 6.0 (BASE #910920W1.11207)	n Sun Microsystems Sun-4, SPARCeerver, SPARCstation, & SPARCengine computer families (under SunOS 4.1)	Motorola CPU32-88331, -88333, & -88340 Evaluation Systems (bare machines)
Verdix Corporation VADS Sun-4 => MIPS R3000, VAde-110-40820, Version 6.1 (#910920W1.11205)	SPARCeever 490 (under SunOS Release 4.1)	LSI LR33000 Pocket Rocket Evaluation board (R3000) (bare machine)	Verdbx Corporation VADS IBM PS/2, ADX 1.1, VAde-110-3535, Version 6.1 (#910820W1.11208)	IBM PS/2 Model 80 (under ADX 1.1)	Same as Host
Validated by Registration Verdix Verdix VADS Sun-4 => MIPS R3000, VAda-110-40820, Version 6.1 (BASE	Sun Microsystems Sun-4, SPARCserver, & SPARCstation computer families (under SunOS 4.1)	LSI LR33000 Pocket Rocket Evaluation board (R3000) (bare machine)	Verdix Corporation VADS MIPS => MIPS R3000, VAde-110-62620, Version 6.1 (#910920W1.11209)	MIPS RC3230 (under RISC/os 4.52)	Lockheed Sanders STAR MVI (R3000) (bare machine)
#910920W1.11205) Verdix Corporation VADS Sun-4 SunOS => MC88000/10, VAde-110-40128, Version 6.0 (#910920W1.11206)	Sun-4/280 (under SunOS Release 4.0.3)	Motorola MVME101 (68000) with MVME222-1 memory board (bare machine)	Verdbx Corporation VADS Sun-3 SunOS => 68020/30 ARTX, VAde-110-13120, Version 6.0 (#910920W1.11210)	Sun-3/280 (under SunOS Release 4.0)	Motorola MVME147 (68030) (bare machine)
*Validated by Registration Verdix Corporation VADS Sun4 => MC88000/10, VAde-110-40128, Version 6.0 (BASE #910820W1.11208)	Sun Microsystems Sun-4, SPARCserver, & SPARCstation computer families (under SunOS 4.1)	Motorola MVME101 (88000) with MVME222-1 memory board (bare machine)	*Validated by Registration Verdix Corporation VADS Sun3 SunOS => 68020/30 ARTX, VAde-110-13120, Version 6.0 (BASE #910920W1.11210)	Sun Microsystems Sun-3 computer family (under SunOS 4.1)	Cyclone CVME 44, 48, & 48; Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower; Heurikon HK88/V2E Series, /V2F Series, & /V30 Series; Integrated Solutions VME68K20, 68K30, 68225, & Liberator SBC; Matrix
4.1, VAda-110-40128, Version 6.0	Sun Microsystems Sun-4, SPARCserver, SPARCstation, & SPARCengine computer familles (under SunOS 4.1)	Motorola 68302, Philipe-Signetics 68070, & Toehiba 68301 (bare machines)			MS-CPU220 & MS-CPU320; MZ7122, MZ7124, MZ7130, MZ8130; & MZ8130; Motorol MVME135, Series, MVME134, MVME135, MVME136, MVME35, MVME136, MVME36 MVME147 Series; Sun Microsystems 3E board set; and Tadpole Technology TP3 & TP32M (bare machines)
(BASE # 910920W1.11208) Verdix Corporation VADS Sun-4 SunOS => CPU32, VAde-110-40150,	Sun-4/280 (under SunOS Release 4.0.3)	Motorola CPU32 - M68332EVS Evaluation System (68332) (bare machine)	Verdix Corporation VADS Sun4 SunOS => 88020/30 ARTX, VAda-110-40120, Version 6.0 (#910920W1.11211)	SPARCetation 2 (under SunOS Release 4.1.1)	Motorola MVME147 (68030) (bare machine)
/eraion 6.0 (#910820W1.11207) *Validated by Registration /erdix Corporation /ADS Sun-4 SunOS => CPU32, /Ade-110-40150, /eraion 6.0	Sun Microsystems Sun-4, SPARCserver, & SPARCstation computer families (under SunOS 4.1)	Motorola CPU32 - M68332EVS Evaluation System (68332) (bare machine)	"Validated by Registration Verdix Corporation VADS Sun4 SunOS => 68020/30 ARTX, VAda-110-40120, Version 6.0 (BASE #910920W1.11211)	Sun Microsystems Sun-4, SPARCestrer, & SPARCestation computer families (under SunOS 4.1)	Motorola MVME147 (68030) (bare machine)
BASE 9910920W1.11207)			Verdix Corporation VADS IBM RISC System/6000 ADX => 68020/30 ARTX, VAds-110-71120, Version 6.0 (#910820W1.11212)	IBM RISC System/6000 Model 530 (under AIX 3.1)	Motorola MVME147 (88030) (bare machine)

VENDOR, COMPIL & CERTIFICATE		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	R HOST MACHINE & (OS)	TARGET MACHINE & (OS)
a ozimi iomiz i	1000111112 0 (00)				
*Validated by Registratio	n		Verdix	Sun-4/20 (under SunOS,	Motorola MVME167A (88040)
Verdbo	IBM RISC System/6000 Models	Motorola MVME147 (88030)	Corporation	4.1.1)	(bare machine, using VxWor
Corporation	320, 520, 540, 730, & 930	(bare machine)	VADSworks Sun4 =>	•	5.0)
VADS IBM RISC	(under AIX 3.1)		68K,		
System/8000 ADX			VAda-115-40900,		
= > 68020/30 ARTX,			Version 2.0		
VAda-110-71120,			(#920513W1.11256)		
Version 6.0			Mandle	Sun 4/00 fundas SunOS	Sun SDADConnier to from
(BASE #910920W1.11212)			Verdix Corporation	Sun-4/20 (under SunOS, 4.1.1)	Sun SPARCengine 1e (bare machine, using VxWorks v5.0
# 8 10820 W 1.11212)			VADSworts Sun4 =>	7.1.1)	mestine, dang vivola vo.c
Verdix	Okidata I860 Workstation	Same as Host	SPARC.		
Corporation	(under UNIX SYSTEM V/860		VAda-115-40650,		
VADS SYSTEM V/880	RELEASE 4 v1.0)		Version 2.0		
RELEASE 4,			(#920513W1.11257)		
VAda-110-9090,					
Version 6.1			Verdix	Sun-4/280 (under SunOS,	Intel ISBC 386/20p (bare
(#910820W1.11213)			Corporation	Version 4.1.2)	machine)
			VADS Sun SPARC =>		
Verdix	MicroVAX 3600 (under VMS	Ironics IV9001 board (AMD	388,		
Corporation	5.2)	29000) (Am29000 bare VME	VAda-110-40315,		
VADS VMS =>		machine)	Version 6.2		
AMD29000,			(#920513W1.11258)		
VAda-110-03525,			No. meth :	DECember Seed force	Loubead Cond.
Version 6.04			Verdix	DECetation 5000/200 (under	Lockheed Sanders STAR MVI
(#910920W1.11214)			Corporation	Ultrix V4.1)	board (bare machine, using
Mallalate at the fire electrical	_		VADSwortes DEC-RISC = > MIPS		vxWorks 5.0)
*Validated by Registratio Verdix		Inchica BANCOS beard (ANAI)	R3000,		
Corporation	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX	Ironics IV9001 board (AMD 29000) (Am29000 bare VME	VAda-115-61640,		
VADS VAX VMS =>	6000, VAX 8000, & VAX 9000	machine)	Version 2.0		
AMD 29K	Series of computers (under	macimej	(#921004W1.11277)		
VAda-110-03525,	VMS 5.3)		(100-100-11111-117)		
Version 6.04	····· • • • • • • • • • • • • • • • • •		Verdix	IBM RISC System/6000 model	Same as Host
(BASE			Corporation	220 (under ADX 3.2)	
#910920W1.11214)			VADS IBM RISC		
			System/6000,		
Verdix	Sun-3/180 (under SunOS	Ironics IV9001 board (AMD	VAda-110-7171,		
Corporation	4.1.1)	29000) (Am29000 bare VME	Version 6.2		
VADS Sun-3 SunOS		machine)	(#921004W1.11278)		
= > AMD 29K,					
VAda-110-13525,			Verdix	IBM RISC System/8000 model	Same as Host
Version 6.04			Corporation	530H (under AIX 3.2)	
(#910820W1.11215)			VADS IBM RISC		
Ministratori bu De alababia	_		System/6000,		
*Validated by Registration Verdix		tennion 840004 hannel 4814D	VAda-110-7171,		
Corporation	Sun Microsystems Sun-3	Ironics IV9001 board (AMD 29000) (Am29000 bare VME	Version 6.2		
VADS Sun-3 SunOS	computer family (under SunOS 4.1)	machine)	(#921004W1.11279)		
=> AMD 29K	00.100 4.1)	mecimie	Verdbo	ASL 486/33 (under UNIX	Same as Host
/Ada-110-13525,			Corporation	System V, Release 3.2)	Carro as I roa
Version 6.04			VADS System	Cyatom V, Noicess C.27	
BASE			V/386/486,		
#910920W1.11215)			VAda-110-3232.		
			Version 6,1		
Verdix	AT&T 382/600GR (under UNIX	Same as Host	(#921004W1.11280)		
Corporation	System V, Release 4.0)				
VADS AT&T			Verdix	AST Premium 488 (under UNIX	Same as Host
382/800GR UNIX			Corporation	System V, Release 4.0)	
System V, Release 4.0,			VADS System		
/Ada-110-6363,			V/386/486,		
Version 6.1			VAda-110-3232,		
(#820513W1.11252)			Version 6.1		
landh	1014 BIOG 0	1D14 D100 0	(#921004W1.11281)		
/erdix	IBM RISC System/8000 Model	IBM RISC System/6000 Model	March	NOD	Comp on Mont
Corporation /ADS IBM RISC	530 (under ADX 3.2)	320 (bere machine)		NCR model 3450 (under NCR	Same as Host
				UNIX SVR4 MP-RAS Release 2)	
System/6000 => BM RISC			VADS System		
System/6000,			V/386/486, VAda-110-3232,		
/Ada-110-71710,			VAGE-110-3232, Version 6.1		
/ersion 6.2					
#920513W1.11253)			(#921004W1,11282)		
			Verdbo	NCR model 3550 (under NCR	Same as Host
/erdix	Motorola 88000 Delta (under	Motorola MVME187 (88000)		UNIX SVR4 MP-RAS Release 2)	
Corporation	R32V3 920117)	(bare machine)	VADS System		
ADS BCS => 88K		(V/386/486,		
/Ada-110-80680,			VAda-110-3232,		
/ersion 6.1			Version 6.1		
7018011 0.1					

VENDOR, COMPILI & CERTIFICATE #		TARGET MACHINE & (OS)	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (O
Verdbo	RDI Britelite ITX Laptop	Same as Host	York Software	Intergraph InterPro 3050	Same as Host
Corporation	(under Solaris 2.1)		Engineering	Workstation (under CLIX	
VADS Sun SPARC			Limited	R3.1)	
Solaris 2.1,			York Ada Compiler		
VAda-110-4040,			Environment (ACE)		
Version 6.2			Release 5		
(#821004W1.11284)			(#901127N1.11073)		
Verdix	SPARCetation 4/30 (under	Same as Host	*Validated by Registration		
Corporation	Solaris 2.1)	Sulle as Floor	York Software	Intergraph Mobile GIS/C2	Same as Host
VADS Sun SPARC	Colaire 2.1)		Engineering	(under CLIX Release 3.1)	Carro as i los
Solaris 2.1,			Limited	(GIOSI CELX I BIOSES G. I)	
VAda-110-4040.			York Ada Compiler		
Version 6.2			Environment (ACE)		
(#921004W1.11285)			Release 5		
(*82100-101111200)			(BASE		
Verdix	SPARCetation 10 model 30	Same as Host	#901127N1.11073)		
Corporation	(under Solaris 2.1)				
VADS Sun SPARC			*Validated by Registration		
Solaris 2.1,			York Software	InterPro 125, 225, 340,	Any Host
VAda-110-4040,			Engineering	360, 2020, 3070, 6040,	
Version 6.2			Limited	6240, 6080 & 6280 (under	
(#921004W1.11286)			York Ada Compiler	CLIX Release 3.1)	
			Environment (ACE)		
Verdix	SPARCetation 10 model 41	Same as Host	Release 5		
Corporation	(under Solaris 2.1)		(BASE		
VADS Sun SPARC			#901127N1.11073)		
Solaris 2.1,					
VAda-110-4040,			*Validated by Registration		
Version 6.2			York Software	InterView 220 & 3050 (under	Any Host
(#921004W1.11287)			Engineering	CLIX Release 3.1)	
			Limited		
/erdix	SPARCetation 10 model 42	Same as Host	York Ada Compiler		
Corporation	(under Solaris 2.1)		Environment (ACE)		
ADS Sun SPARC	· ·		Release 5		
Solaris 2.1,			(BASE		
/Ada-110-4040,			#901127N1.11073)		
/ersion 6.2					
(#921004W1.11288)			*Validated by Registration		Amerikana
/erdix	Sun SPARCserver 690 (under	Same as Host	York Software	InterAct 220, 2020, 3050,	Any Host
Corporation	•	Salite as Float	Engineering	6040, 6080, 6240 & 6280	
ADS Sun SPARC	Solaris 2.0)		Limited	(under CLIX Release 3.1)	
			York Ada Compiler		
Solaris 2.1, /Ada-110-4040.			Environment (ACE)		
/ersion 6.2			Release 5		
#821004W1.11289)			(BASE #901127N1.11073)		
, , , , , , , , , , , , , , , , , , , ,			750112/111.110/0/		
/erdix	Sun SPARCeerver 890 (under	Same as Host	*Validated by Registration		
Corporation	Solaris 2.0)		York Software	InterServe 200, 300, 2000,	Any Host
ADS MP Sun SPARC			Engineering	3000, 4200, 5200, 8000,	
Solaris 2.1,			Limited	6105 & 6505 (under CLIX	
/Ada-110-4141,			York Ada Complier	Release 3.1)	
ersion 6.2			Environment (ACE)		
#921004W1.11290)			Release 5		
			(BASE		
/erdix	Silicon Graphics IRIS	Same as Host	#901127N1.11073)		
Corporation	4D/440 (under IRIX 4.0.1)				
ADS Silicon					
Braphics Self,					
/Ada-110-8464,			5 gw		
ersion 6.2					
#921004W1.11291)					
Vang	Wang VS 8480 (under Wang	Same as Host			
aboratories,	VSOS 7.30.02)				
nc.	,				
Vang VS Ada					
/ersion 5.00.00					
#901129W1.11093)					
Validated by Registration					
		Same se Mort			
Vang aboratories,	Wang VS Models: 100 & 300;	Same as Host			
	5430, 5440, 5450 & 5480;				
None VC Ado	7010, 7110, 7120, 7150 &				
Vang VS Ada	7310; 8220, 8230, 8260,				
/ersion 5.00.00	8430, 8460, 8470 & 8480;				
BASE	and 10050, 10075 & 10100				
	(under all VS OS versions				
901129W1.11093)	7.21.30(& 7.30.30()				

2.10 PASCAL PROCESSORS

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
Bull HN	Pascal Version PCV1.2 NIST-92/1683 Level 0/1	DPS 90 GCOS-8 Version SR4020	8/1/93	DPS 8000, 9000 GCOS-8 Version SR4020	
Bull S.A.	Pascal SXL-3002 Version 01.01 PCVS/0003/F Level 0/1	DPX/2 250 BOS, Version 20	3/31/93	DPX/2200 and 300 BOS Version 1.1 and 2.0	
Control Data Corporation	PASCAL/VE Version 1.8 Level 780 NIST-92/1423 Level 0/1	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Cyber 180 Ser; Cyber 2 NOS/VE Ver. 1.6.1 Level 78	
Digital Equipment Corporation	VAX Pascal, Version 4.4 NIST-92/2249 Level 0/1	VAX 3100 Model 76 VAX/VMS Version 5.5	12/1/93	VAX 4000 Mod 200 300; Mod 200 300 400 500; 8 8250 8300 8350 85xx 86 8650 8700 8800 8810 88 8830 8840; 9000 Mod 2 VAXft 3000-310; VAX11//750/780/785; MicroVAX 2000 3100 3300 3400 35 3600 3800 3900; VAXsta 2000 3100 3200 3500 35 3540; VAXserver 3100 33 3400 3500 3600 3602 38 3900 4000 Mod 200 300 Mod 210/220 310/320 4510/520 VMS Version 5.5	3200 320 320 30 30 30 40 40 500 40 500 500 500 500
	DEC Pascal for RISC OSF Version 1.2 NIST-92/2248 Level 0/1	DECstation 5000-125 OSF/I Version 1.0	12/1/93	DECstation 2100, 3100, 5000-120/125; 5000 mod 200, 200CX, 200PX, 200 200PXG TURBO; DECsy 3100, 5000 models 200, 5400, 5500, 5820, 5830, OSF/1 Version 1.0	dels PXG, stem 5100,
	DEC Pascal for RISC Version 1.2 NIST-92/2247 Level 0/1	DECstation 5000 Model 200 ULTRIX Version 4.2	12/1/93	DECstations 130; 2100, 3100s, 5000-120/125, 50 200CX, 200PX, 200PXG, 200PXG TURBO DECsys 3100, 5000-200, 5100, 5500, 5810, 5820, 5830, ULTRIX Version 4.2 & 4.2	000-200, stems 400,
Edinburgh Portable Compilers	Pascal-E Version 4.3.2 PCVS/0092/UK Level 0	ICL DRS 6000 DRS/NX 6000 Version 4.0	1/1/93		
	Pascal-E Version 4.3.2 PCVS/0093/UK Level 0	ICL DRS 3000 DRS/NX 3000 Version 5.0	1/1/93		
	Pascal-E Version 4.3.3 PCVS/009I/UK Level 0	PC/AT 80386 Interactive UNIX Release 3.22	1/1/93		

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
IBM Canada LTD	IBM AIX XL PASCAL Compiler/6000 Version 1 Release 1 NIST-92/1342 Level 0	IBM RISC System/6000 POWERstation 530 IBM AIX Version 3 Release 2	3/1/93	IBM RISC System/6000 Powerstation/ Powersen 320H, 340, 350, 520H, 5 530E, 540, 550, 560, 560 Powerserver 930, 950 AIX RISC System/6000 Version 3 Release 2	30,
Intergraph Corporation	Pascal-CLIPPER Version 1.8.4B NIST-93/1042 Level 0	CLIPPER IS4000 CLIX Version 6.5	12/1/93	CLIPPER C300 and C40 CLIX Version 6.5	0
Olivetti Systems & Networks	Olivetti Green Hills Pascal Version 1.2 IMQ/PCVS-002/92 Level 0	Olivetti LSX 5010 Olivetti Unix System V R4.0 Version 2	1/10/93		
Siemens Nixdorf Information Systems AG	SNI Pascal-XT Version 2.1B PCVS/0095/UK Level 0/1	MX300-50 SINIX-L Version 5.41	2/1/93		
	SNI Pascal-XT Version 2.1B PCVS/0097/UK Level 0/1	RM600 SINIX-P Version 5.41	2/1/93		
	SNI Pascal-XT Version 2.1A PCVS/0096/UK Level 0/1	MX300 SINDX-H Version 5.24	2/1/93		
	SNI Pascal-XT Version 2.2A PCVS/0094/UK Level 0/1	H120-I 7.500 BS2000 Version 10.0	2/1/93		

2.11 C PROCESSORS

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR NONCON- HW/OS FORMITIES
Amdahl Corporation	Amdahl C Version 1 Release 2 NIST-92/2083	Amdahl 5990 MLS Version 2 Release 1.4	12/1/93	Amdahl 5995-1400, 5995M, 5890 MLS Version 2 Release 1.4
Hewlett-Packard Company	HP C/HP-UX Version A 09.26 NIST-93/1151	HP9000 Series 720 HP-UX Version A.09.00	1/1/94	HP9000 808, 815, 822, 825, 832, 835, 842, 850, 852, 855, 860, 865; 870/100 /200 /300 /400; 890/1 /2 /3 /4; 807, 817, 827, 837, 847, 857, 867, 877, 887, 897, 635, 645, F10, F20, F30, G30, G40, G50, H20, H30, H40, H50, I30, 710, 705, 715, 725, 735, 755, 745i, 747i, 750 HP-UX Version A.09.00
	HP C/HP-UX Version B.08.35 NIST-93/1152	HP9000 Series 42S HP-UX Version B.09.00	1/1/94	HP9000 425e, 425t, 425s, 433, 382, 380 HP-UX Version B.09.00
	HP C/HP-UX Version A.08.25 NIST-93/1154	HP9000 Series 827 HP-UX Version 8.02	1/1/94	
	HP C/IX Version A.04.51 NIST-93/1153	HP3000 Series 927LX MPE/iX Version 4.5	1/1/94	HP3000 917LX, 927LX, 937LX, 947LX, 957LX, 967LX, 977SX, 987SX, 990; 992/100 /200 /300 /400; 937RX, 947RX, 957RX, 967RX, 937SX, 947SX, 957SX, 967SX MPE/IX Version 4.5
IBM Canada Ltd.	XL C Compiler Version 1.2 NIST-92/1851	IBM RISC System/6000 AIX for RISC System/6000 Version 3 Release 2	7/1/93	IBM RISC 6000 POWERstation/ POWERservers 220, 320, 320H, 340, 350, 520, 520H, 530, 530H, 540, 550, 560; POWER- server(s) 730, 930, 950, 970 AIX for RISC 6000 Version 3 Release 2
	IBM SAA C/400 Version 2 Release 2 NIST-92/2091	AS/400 D80 OS/400, Version 2 Release 2	11/1/93	9402 System Models D02, E02, C04, D04, E04, C06, D06, E06; 9404 System Models B10, C10, D10, E10, B20, C20, D20, E20, C25, D25, E25; 9406 System Models B35, B40, B45, B50, B60, B70, D35, D45, D50, D60, D70, D80, E35, E45, E50, E60, E70, E80, E90, E95 OS/400 Version 2 Release 2
	C/370 Compiler Version 2 Release 1 NIST-93/1051	ES/9000 MVS/ESA SP Version 4 Release 2	1/1/94	3090, 308X, 43XX, 937X MVS/ESA SP Version 4 Release 2
	C/370 Compiler Version 2 Release 1 NIST-93/1052	ES/9000 VM/ESA Version 1 Release 1.1	1/1/94	3090, 308X, 43XX, 937X VM/ESA Version 1 Release 1.1

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR NONCO HW/OS FORMIT	
	C/370 Compiler Version 2 Release 1 NIST-93/1053	ES/9000 VM/SP Version 1 Release 6	1/1/94	3090, 308X, 43XX, 937X VM/SP Version 1 Release 6	
	C/370 Compiler Version 2 Release 1 NIST-93/1054	ES/9000 VM/XA SP Version 1 Release 2	1/1/94	3090, 308X, 43XX, 937X VM/XA SP Version 1 Release 2	
	SAA AD/CYCLE C/400 Version 1 Release 1.1 NIST-93/1055	ES/9000 MVS/ESA SP Version 4 Release 2	1/1/94	3909, 908X, 43XX, 937X MVS/ESA SP Version 4, Release 2	
	XL C Compiler Version 1 Release 2 NIST-93/1056	IBM RISC 6000 Model 220 AIX for RISC 6000 Version 3 Release 2	1/1/94	IBM RISC 6000 POWERstation/ POWERservers 320, 320H, 340, 350, 520, 520H, 530, 530H, 540, 550, 560, 580; POWER- server(s) 730, 930, 950, 970, 980 AIX for RISC 6000 Version 3 Release 2	
	XL C Compiler Version 1 Release 2 NIST-93/1057	IBM RISC 6000 Model 530H AIX for RISC 6000 Version 3 Release 2	1/1/94	IBM RISC 6000 POWERstation/ POWERservers 220, 320, 320H, 340, 350, 520, 520H, 530, 540, 550, 560, 580; POWER- server(s) 730, 930, 950, 970, 980 AIX for RISC 6000 Version 3 Release 2	
Intergraph Corporation	Clipper Advanced Optimizing C Version 1.57 NIST-93/1043	Clipper AS4000 CLIX Version 6.5	12/1/93	Clipper C3000 and C4000 CLIX Version 6.5	
NCR Corporation	NCR C Development Toolkit Release 2 NIST-92/2321	NCR System 3000 Model 3550 NCR UNIX SVR4 MP-RAS Release 2	1/1/94	NCR System 3000 Models 3345, 3445, 3447 NCR UNIX SVR4 MP-RAS Release 2	
	NCR C Development Toolkit Release 2 NIST-92/2322	NCR System 3000 Model 3450 NCR UNIX SVR4 MP-RAS Release 2	1/1/94	NCR System 3000 Models 3335, 3350, 3355, 3360 NCR UNIX SVR4 MP-RAS Release 2	
Sequent Computer Systems, Inc.	ptx/C Version 2 Release 0 NIST-92/2142	S2000/250 DYNIX/ptx Version 2 Release 0	10/1/93	\$2000/450, \$2000/750 DYNIX/ptx Version 2 Release 0	
Sun Microsystems, Inc.	Sun ANSI C Version 2.0.1 NIST-92/2331	SPARCstation 4/30 Solaris Version 2.1	1/1/94		
	Sun ANSI C Version 2.0.1 N1ST-92/2332	SPARCstation 10 model 30 Solaris Version 2.1	1/1/94		
	Sun ANSI C Version 2.0.1 NIST-92/2333	SPARCstation 10 model 41 Solaris Version 2.1	1/1/94		

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Sun ANSI C Version 2.0.1 NIST-92/2334	SPARCstation 10 model 42 Solaris Version 2.1	1/1/94		
	Sun ANSI C Version 2.0.1 NIST-92/2335	RDI BriteLite Solaris Version 2.1	1/1/94		
	Interactive Unix Software Development System ANSI C Version 3 NIST-92/2336	Alpha Systems Lab PC model ASL 486/33 Sun Interactive Unix Version 3.2 Release 3.0.1	1/1/94		

2.12 MUMPS PROCESSORS

VENDOR	PROCESSOR ID	HARDWARE &	EXPIRY	LEVEL	OTHER ENVIR	NONCON-
	& VSR #	OPERATING SYSTEM	DATE		HW/OS	FORMITIES

No entries at this time.

3. DATABASE LANGUAGE (SQL)

3.1 FIPS Database Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies, when acquiring SQL processors, are responsible for assuring that processors are in accordance with FIPS PUB 127-1, Database Language SQL.

3.2 Organization of Database Language Processor Entries

Each entry in the VPL is a very limited extract from the Validation Summary Report (VSR) available from NIST. See 3.4 below.

The entries in the VPL for database language processors are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the processor.
- The PROCESSOR ID column contains the name of the processor, its version number, the VSR number, and the Expiry date of the Notification of Registration. The term "Pre-release" means that the vendor has designated the SQL processor as "not commercially available" at the time of validation. The product is listed to assist users in planning for future procurements.
- The INTERFACES & COMPILERS column contains the names of associated interactive SQL or programming language interfaces, and identification of the programming language compilers that interface with the SQL processor. A listing in the COMPILERS column is not an indication that the compiler has been validated for the applicable programming language standard. See the preceding "Programming Languages" Section for a list of validated compilers.
- The HARDWARE & OPERATING SYSTEM column presents the hardware and operating system environment used during the validation.
- The entries in the OTHER HW/OS & COMPILERS column include other hardware and operating system environments in which the processor operates, and the programming language compilers that interface with the SQL processor. The listings of the compilers and operating systems may contain a range of versions that are supported.
- The NONCONFORMITIES column lists the number of nonconformities for each interface tested (Ada, C, COBOL, Fortran, and Pascal). If a product supports both module language and embedded interfaces for a given programming language, then the programming language will be preceded by "Embedded" or "Module," as appropriate. Schema nonconformities are deficiencies in support for standard schema definition language constructs. "FIPS Flagger" in this column indicates that the mandatory FIPS Flagger requirement of FIPS 127-1 was not implemented. "IEF" nonconformities are deficiencies in the optional "Integrity Enhancement Feature" of FIPS 127-1. "Sizing" designates failure to support default minimum "Sizing for Database Constructs" specified under "Special Procurement Considerations" of FIPS 127-1. "Interactive" errors are deficiencies in the "Interactive SQL" interface defined in the "Special Procurement Considerations" section of FIPS 127-1. Refer to VSR for details. The number of nonconformities is only one limited measure of the quality of an SQL interface. It is more important to analyze the nature of each individual nonconformity and its impact on meeting user requirements.

3.3 Validation Requirements

The requirements for validation of database language processors are the same as those for programming language processors, listed in section 2.3.1.

3.4 Registered Report

A registered Validation Summary Report is issued for those SQL processors that have been tested and are considered to be in compliance with FIPS as specified by the FIPS, by the FIRMR, and the associated Federal ADP and Telecommunications Standards Index. VSRs are available from the Database and Graphics Group address below.

3.5 Validation Procedures and Test Suite

SQL processors are tested in accordance with procedures described in the NIST <u>Language Processor Validation Procedures for SQL Validation Service</u>. The current version of the SQL Validation System is Version 3.0. Any product with a VSR expiration date of July 1993 or later has been tested with Version 3.0. Those with no known non-conformities have received a Certificate of Conformance to FIPS 127-1. The validation procedures and test suite are available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
Database and Graphics Group
Building 225, Room A266
Gaithersburg, MD 20899
Telephone (301) 975-3258, (301) 975-3267 (Voice)
(301) 590-0932 (FAX)

3.6 SQL PROCESSORS

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	OTHER HW/OS	NONCON-
	SR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS	FORMITIES
Digital Equipment Corporation	VAX Rdb/VMS Version 4.1 NIST-92/7351 10/01/93	Embedded Ada Module Ada VAX Ada Version 2.2	VAXstation 3500 and VAX 8800 VAX/VMS Ver. 5.4-3	VAX, MicroVAX, and VAXstation VMS Versions 5.0 - 5.4-3	1
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C Module C VAX C Version 3.2 Embedded COBOL Module COBOL VAX COBOL Version 4.4		VAX Ada V2.0 - 2.2 VAX C V3.0 - 3.2 VAX COBOL V4.2 - 4.4 VAX Fortran V5.0 - 5.7 VAX Pascal V3.9 - 4.2	
		Embedded FORTRAN Module FORTRAN VAX FORTRAN Version 5.7 Embedded PASCAL Module PASCAL VAX Pascal Version 4.2 Interactive SQL (FIPS Default)			
	VAX Rdb/VMS Version 4.1	Embedded Ada Module Ada	VAXstation 4000 Cluster VAX/VMS Ver. 5.5-2	VAX, MicroVAX, and VAXstation VMS Versions 5.0 - 5.5-2	
	NIST-92/7352 10/01/93	VAX Ada Version 2.1 Embedded C		VAX Ada V2.0 - 2.1	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option	Module C VAX C Version 3.2 Embedded COBOL		VAX C V3.0 - 3.2 VAX COBOL V4.2 - 4.4 VAX Fortran V5.0 - 5.7	
	FIPS Sizing Defaults FIPS Flagger	Module COBOL VAX COBOL Version 4.4 Embedded FORTRAN Module FORTRAN VAX FORTRAN Version 5.7		VAX Pascal V3.9 - 4.2	
		Embedded PASCAL Module PASCAL VAX Pascal Version 4.2 Interactive SQL (FIPS Default)			
	VAX Rdb/VMS Version 4.2 Pre-release NIST-92/7353 10/01/93	Embedded Ada Module Ada VAX Ada Version 2.2	VAX station 3500 and VAX 8800 VAX/VMS Ver. 5.4-3	VAX, MicroVAX, and VAXstation VMS Versions 5.0 - 5.4-3	
	Features Tested:	Embedded C Module C		VAX Ada V2.0 - 2.2 VAX C V3.0 - 3.2	
	Level 2 ANSI SQL	VAX C Version 3.2		VAX COBOL V4.2 - 4.4	
	Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded COBOL Module COBOL VAX COBOL Version 4.4 Embedded FORTRAN Module FORTRAN		VAX Fortran V5.0 - 5.7 VAX Pascal V3.9 - 4.2	
		VAX FORTRAN Version 5.7 Embedded PASCAL Module PASCAL			
		VAX Pascal Version 4.2 Interactive SQL (FIPS Default)			
	VAX Rdb/VMS Version 4.2 Pre-release NIST-92/7354 10/01/93	Embedded Ada Module Ada VAX Ada Version 2.1	VAXetation 4000 Cluster VAX/VMS Ver. 5.5-2	VAX, MicroVAX, and VAXstation VMS Versions 5.0 - 5.5-2	
		Embedded C	775 7 7 MG 701. GIG E	VAX Ada V2.0 - 2.1	
	Features Tested: Level 2 ANSI SQL	Module C VAX C Version 3.2		VAX C V3.0 - 3.2 VAX COBOL V4.2 - 4.4	
	Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded COBOL Module COBOL VAX COBOL Version 4.4 Embedded FORTRAN Module FORTRAN VAX FORTRAN Version 5.7 Embedded PASCAL		VAX Fortran V5.0 - 5.7 VAX Pascal V3.9 - 4.2	
		Module PASCAL VAX Pascal Version 4.2 Interactive SQL (FIPS Default)			

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS	NONCO! FORMITI
IBM Corporation	SQL/DS Version 3 Release 2 NIST-90/7021 1/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C IBM C/370 Version 1 Release 2 Embedded COBOL IBM VS COBOL II Version 1 Release 3.1 Embedded Fortran IBM VS Fortran Version 2 Release 4.0	IBM 3090 VM/XA SP Release 2	IBM 30not, 43not, 90not, 93not VM/ESA Release 1 VM/SP Release 6 VM/XA SP Release 2	
	SQL/DS Version 3 Release 2 NIST-90/7022 1/1/#3 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Interactive SQL (FIPS Default) Embedded COBOL IBM VS COBOL II Version 1 Release 3.2 Embedded Fortran IBM VS Fortran Version 1 Release 4.1 Interactive SQL (FIPS Default)	IBM 3090 VSE/ESA Release 1	IBM 30xx, 43xx, 90xx, 93xx VSE/ESA Release 1 VSE/SP Release 3 VSE/SP Release 4	
	Database 2 (DB2) Version 2 Release 3 NIST-82/7201 5/1/83 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C IBM C/370 Ver 1 Rel 2 Embedded COBOL IBM SAA AD/CYCLE COBOL/370 Ver 1 Rel 1 Embedded Fortran IBM VS FORTRAN Ver 2 Rel 5 Module Language Ada IBM Ada/370 Ver 1 Rel 2 with IBM Ada/370 Module Processor for DB2 Interactive SQL (FIPS Default)	IBM ES9021-770 MVS/ESA SP V.3 R.1.3	IBM 30xx, 43xx, 9xxx MVS/XA SP V2R2 MVS/ESA SP V4R2	
Informix Software Inc.	INFORMDC-OnLine Version 4.10 NIST-91/7031 2/1/83 Features Tested: Level 2 ANSI SOL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Sun C 4.1	Sun 4 Model 280 Sun OS 4.1	Sun Model 4/80, 4/100, 4/200; Si Sparcserver 1, 1+, 330, 370, 380, 480; Sun Sparcstation 300, 330 Sun CS 4.1 Solbourne Series 4/801, 4/802, 4/803, 4/804, 5/801, 5/802, 5/80 5/871, 5/872, 5/873, 5/874 OS/MP 4.0	
	INFORMIX-OnLine Version 4.10 NIST-91/7032 2/1/83 Features Tested: Level 2 ANSI SOL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 AT&T C 4.2	AT&T 382/700 Unitx System V Release 3.2.1, Rev. 3	AT&T 382 300, 310, 400, 500, 600 750 Unix System V Release 3.2.1, Rev. 3	, 1C
	INFORMIX-OnLine Version 4.10 NIST-e1/7033 2/1/83 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 HPUX C	HP 9000/825 HP-UX Version A.B7.00	HP 9000/808, 808S, 815, 815S, 82 825, 825S, 832, 834, 835, 835S, 835SE, 840, 842, 845, 845S, 850, 852, 855 HP-UX A.B7.00	22, 1C
	INFORMIX-OnLine Version 4.10 NIST-91/7034 2/1/83 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 C 4.1	Prime EXL320 Unix System V 3.1		10
	INFORMIX-OnLine Version 4.10 NIST-91/7035 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Interactive C 4.1.5	INTEL WS3000 Interactive Unix System V 3.2.2	Compaq Systempro 486 Compaq Deskpro 386/25; 386/33; 486/25 MDL120; 486/25 MDL 320; 486/25 MDL850; 486/33; Data General Dasher 386/3863X Interactive Unix V/386 2.2 AT&T 6386; 6386/25; 6388/33 Unix System 3.2	1C

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	OTHER HW/OS N	IONCON-
	VSR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS FO	<u>DRMITIES</u>
	INFORMIX-ESQL/C Version AR4.00 NIST-91/7038 2/1/83	Schema Processor INFORMIX-SQL Version 4.00	Concord 386 MS-DOS 3.30	Compaq Designo 388/486 MS-DOS 3.30	14 C
	Features Tested: Level 2 ANSI SQL (single-user) FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version AR4.00 Microsoft 6.0 C		IBM PC AT MS-DOS 4.0/3.30 Toehiba 3100 SX/3200 MS-DOS 4.01	
	INFORMIX-OnLine Version 5.0 NIST-91/7037 5/1/83	Embedded C INFORMIX-ESQL/C Sun C as bundled	Sun SPARCeerver 470 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcserver 1, 1+, 330, 370, 380; Sun Sparcstation 300, 330	1 IEF Schema
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	with Sun OS 4.1.1 Interactive SQL (FIPS Default) INFORMIX DB-Access		Sun OS 4.1 - 4.1.1	
	INFORMIX-OnLine Version 5.0 NIST-91/7038 5/1/93	Embedded C INFORMIX-ESQL/C C as bundled with	DECSYSTEM 3100 ULTRIX 4.0 rev 179	DECSYSTEM 3100, 5100, 5400, 5500, 5810, 5820, 5830, 5840; DECSTATION 2100, 3100, 5000-200	1 IEF Schema
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	ULTRIX 4.0 rev 179 Interactive SQL (FIPS Default) INFORMIX DB-Access		ULTRIX 4.0 rev 179	
	INFORMIX-OnLine Version 5.0 NIST-91/7039 5/1/93	Embedded C INFORMIX-ESQL/C C as bundled with Software	Zenith 386/33E SCO Unix System V 3.2	Altos Series 5000; Bull HN DPX/Prostation 25i, 25E; Compaq Destpro 388/25, 20E; Destpro	1 IEF Schema
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Development System 4.1.5 Interactive SQL (FIPS Default) INFORMIX DB-Access		388/33, System Pro; Deskpro 388/SX; Deskpro 488/25 MDL 120, 123; Deskpro 486/33 System Pro M; Systempro MDL 485 Dual Proc.; Dec System 316+, 325, 333 SCO Unix System V 3.2	
	INFORMIX-OnLine Version 5.01 Pre- release NIST-92/7191 3/1/93	Embedded C INFORMIX-ESQL/C 5.00 Sun C as bundled with Sun OS 4.1.1	Sun 4/80 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcesover 1, 1+, 330, 370, 390, 470; Sun Sparcetation 300, 330	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.03 Interactive SQL (FIPS Default) INFORMIX DB-Access 5.00		Sun OS 4.1 - 4.1.1	
	INFORMIX-OnLine Version 5.01 Pre- release NIST-92/7195 3/1/93	Embedded Ada INFORMIX-ESQL/Ada 4.00 Verdix Ada 6.03	Sun 4/80 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcserver 1, 1+, 330, 370, 390, 470; Sun Sparcstation 300,	7 Embedded A
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger			330 Sun OS 4.1 - 4.1.1	
	INFORMIX-OnLine Version 5.0 NIST-92/7192 3/1/93	Embedded C INFORMIX-ESQL/C 5.00 C as bundled with	DECSYSTEM 3100 ULTRIX 4.2 rev 98	DECSYSTEM 3100, 5100, 5400, 5500, 5810, 5820, 5830, 5840; DECSTATION 2100, 3100, 5000-200	1 IEF Schema 7 Embedded A
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	ULTRIX 4.0 rev 179 Embedded Ada INFORMIX-ESQL/Ada 4.00 Verdix Ada 6.1 Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.1		ULTRIX 4.0 - 4.2	

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	-	IONCON-
	VSR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS FO	<u>ORMITIES</u>
	INFORMIX-OnLine Version 5.0 NIST-92/7193 3/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C 5.00 C as bundled with Software Development System 4.1.5 Embedded Ada INFORMIX-ESQL/Ada 4.00 Verdix Ada 6.1 Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.1 Interactive SQL (FIPS Default) INFORMIX DB-Access 5.00	Zenith Z-488/25E 8CO Unix System V 3.2	Altos Series 5000; Bull HN DPX/Prostation 25I, 25E; Compaq Desipro 386/25, 20E; Desipro 386/33, System Pro; Desipro 386/35X; Desipro 486/25 MDL 120, 123; Desipro 486/33 System Pro M; Systempro MDL 485 Dual Proc.; Dec System 316+, 325, 333 SCO Unix System V 3.2	
	INFORMIX-OnLine/Secure Version 4.10 Pre-release NIST-92/7194 3/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version 4.10 Sun C 4.1 Interactive SQL (FIPS Default) INFORMIX DB-Access 4.10	Sun 4 Model 280 Sun OS 4.1.1	Sun Model 4/80, 4/100, 4/200; Sun Sparcsenver 1, 1+, 330, 370, 380, 490; Sun Sparcstation 300, 330 Sun OS 4.1.1; Sun C 4.1.1 Solboume Series 4/801, 4/802, 4/803, 4/804, 5/801, 5/802, 5/804, 5/871, 5/872, 5/873, 5/874 OS/MP 4.0 Solboume C4.0	10
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7301 12/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME Version 5.00 SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00 Sun ANSI C Version 2.0.1 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00	RDI BriteLite IPX Laptop Solaris 2.1	Sun4c sparc Solaris 2.1	
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7302 12/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME Version 5.00 SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00 Sun ANSI C Version 2.0.1 Interactive SQL (FIPS Default) INFORMIX D8-Access Version 5.00	Sun SPARCatation 10, Model 30 Solaris 2.1	Sun4m sparc Solaris 2.1	
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7303 12/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME Version 5.00 SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00 Sun ANSI C Version 2.0.1 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00	Sun SPARCetation 10, Model 41 Solaris 2.1	Sun4m sparc Solaris 2.1	
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7304 12/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME Version 5.00 SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00 Sun ANSI C Version 2.0.1 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00	Sun SPARCetation 10, Model 42 Solaris 2.1	Sun4m sparc Solaris 2.1	
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7305 12/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Module Ada INFORMIX-ADA/SAME Version 5.00 SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00 Sun ANSI C Version 2.0.1 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00	Sun SPARCetation 4/30 Solaris 2.1	Sun4m sparc Solaris 2.1	

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	OTHER HW/OS	NONCON-
	VSR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS	FORMITIES
	INFORMIX-OnLine/Secure Version 5.00	Module Ada INFORMIX-ADA/SAME Version 5.00	Alpha Systems Lab PC Model ASL 486/33	Intel 488 Sun Interactive Unbs, Version	
	NIST-93/7308 12/1/93	SunAda Version 2.0 Embedded C INFORMIX-ESQL/C Version 5.00	Sun Interactive Unix, Version 3.0.1, Release 3.2	3.0.1, Release 3.2	
	Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Interactive ANSI C Version 3.0 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00			
	INFORMIX-OnLine/Secure Version 5.00 NIST-83/7307 12/1/83	Module Ada INFORMIX-ADA/SAME Version 5.00 Alsys Ada for HP9000 Series 800, Version A.05.35	Hewlett-Packard 9000 Series 800 Model 887 HP BLS A.08.08	HP9000 Series 800, Series 700 HP BLS A.08.08-09	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version 5.00 HP C Version A.08.17 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00			
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7308 12/1/93	Module Ada INFORMIX-ADA/SAME Version 5.00 Alsys Ada for HP9000 Series 800, Version A.05.35	Hewlett-Packard 9000 Series 800 Model 827 HP BLS A.08.08	HP9000 Series 800, Series 700 HP BLS A.08.08-09	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version 5.00 HP C Version A.08.17 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00			
	INFORMIX-OnLine/Secure Version 5.00 NIST-93/7309 12/1/93	Module Ada INFORMIX-ADA/SAME Version 5.00 Alsys Ada for HP9000 Series 800, Version A.05.35	Hewlett-Packard 9000 Series 800 Model 807 HP BLS A.08.08	HP9000 Series 800, Series 700 HP BLS A.08.08-09	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version 5.00 HP C Version A.08.17 Interactive SQL (FIPS Default) INFORMIX DB-Access Version 5.00			
NCR/ ShareBase	ShareBase III, Release 1.2 NIST-92/7251 7/1/93	Embedded C Sun UNIX C Release 4.1.1	Client: Sun SPARC SLC SunOS, Release 4.1.1	Client: Sun SPARC SLC SunOS, Release 4.1.1 Server: NCR System 3000	FIPS Flagger
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults		Server: Server/8000 Sharebase III, Release 1.2	Model 3445 System V Release 4 (rel. 1.2)	
Oracle Corporation	ORACLE RDBMS Version 6.0 NIST-91/7052 4/1/93	Embedded C Pro°C Version 1.4 VAX C Version 3.1	DEC VAX 6560 VMS Version 5.4	VAX, MicroVAX, VAXStation VMS Versions 4.6 - 5.4	2 Schema 14 C 11 COBOL
	Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults	Embedded COBOL Pro*COBOL Version 1.4 VAX COBOL Version 4.2			11 Fortran 11 Pascal 9 Interactive
		Embedded Fortran Pro*Fortran Version 1.4 VAX Fortran Version 5.2 Embedded Pascal Pro*Pascal Version 1.4 VAX Pascal Version 3.9			FIPS Flagger
		Interactive SQL (FIPS Default) SQL*DBA Version 6.0 SQL*Pluz Version 3.0			

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	OTHER HW/OS	NONCON-
	VSR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS	FORMITIES
	Trusted ORACLE7, Release 7.0 Pre-	Embedded Ada	Hewlett-Packard 9000/835	HP 9000/700 Series and HP	
	release	Pro*Ada Version 1.5	HP-UX BLS Version 8.04	9000/800 Series	
	NIST-92/7801 07/1/93	ALSYS Ada DS B2425,		HP-UX BLS Version 8.04	
	Features Tested:	Version A.05.35 Embedded C			
	Level 2 ANSI SQL	Pro*C Version 1.5			
	Integrity Enhancement Option	HP C HP 92453-01.			
	FIPS Sizing Defaults	Version A.08.79			
	FIPS Flagger	Embedded COBOL			
		Pro*COBOL, Version 1.5			
		Micro Focus COBOL/2,			
		Version 1.1 revision 002			
		Embedded FORTRAN			
		Pro*FORTRAN, Version 1.5			
		FORTRAN 77/UX			
		HP92430, Version			
		A.08.14			
		Schema Processor			
		SQL*DBA Version 7.0			
	ORACLE7, Release 7.0	Embedded Ada	IBM RISC System 8000 Model	IBM RISC System 6000 Models 2	220,
	NIST-93/7101 11/1/93	Pro*Ada, Version 1.5	530H	320, 320H, 340, 350, 520, 520H,	
		VADS IBM RISC System (8000, AIX	IBM AIX for RISC	550, 560, 730, 930, 950, 970	•
	Features Tested:	3.2, VAda 110-7171, Version 6	System/6000, Version 3	AIX for RISC System /6000,	
	Level 2 ANSI SQL	Embedded C	Release 2	Version 3 Release 2	
	Integrity Enhancement Option	Pro*C, Version 1.5			
	FIPS Sizing Defaults	IBM XL C Compiler/6000, Version 1.2			
	FIPS Flagger				
	ORACLE7, Release 7.0	Embedded C	NCR 3450	NCR Series 3000, to include 333	6.
	NIST-93/7102 11/1/93	Pro*C, Version 1.5	NCR System V Release 4 MP-	3345, 3447, 3550, 3600	,
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NCR C Development Toolkit, Rel 2	RAS, Rel 2	NCR System V Release 4 MP	
	Features Tested:		-	RAS, Rel 2	
	Level 2 ANSI SQL				
	Integrity Enhancement Option				
	FIPS Sizing Defaults				
	FIPS Flagger				
	ORACLE7, Release 7.0	Embedded C	NCR 3550	NCR Series 3000, to include 333	5.
	NIST-93/7103 11/1/93	Pro*C, Version 1.5	NCR System V Release 4 MP-	3345, 3447, 3550, 3600	-,
	.,,.,.,.	NCR C Development Toolkit, Rel 2	RAS, Rel 2	NCR System V Release 4 MP	
	Features Tested:			RAS, Rel 2	
	Level 2 ANSI SQL				
	Integrity Enhancement Option				
	FIPS Sizing Defaults				
	FIPS Flagger				
	OPACIET Belease 7.0	Embedded Ada	1100 0450	NOR Codes poor to looked poor	
	ORACLE7, Release 7.0 NIST-93/7104 11/1/93	Pro*Ada, Version 1.5	NCR 3450 NCR System V Release 4 MP-	NCR Series 3000, to include 333 3345, 3447, 3550, 3800	Ο,
		Verdix Corp. VADS UNIX System	RAS, Rel 2	NCR System V Release 4 MP	
	Features Tested:	V/386, Release 4, Version 6.1	19-0, 1912	RAS, Rel 2	
	Level 2 ANSI SQL	· · · · · · · · · · · · · · · · · · ·			
	Integrity Enhancement Option				
	FIPS Sizing Defaults				
	FIPS Flagger				
	OPACIET Polices 7.6	P-1-44-4 A	1100 0770	NOD OLD SOME	
	ORACLE7, Release 7.0	Embedded Ada	NCR 3550	NCR Series 3000, to include 333	ο,
	NIST-93/7105 11/1/93	Pro*Ada, Version 1.5	NCR System V Release 4 MP-		
	Features Tested:	Verdix Corp. VADS UNIX System	RAS, Rel 2	NCR System V Release 4 MP RAS, Rel 2	
	Level 2 ANSI SQL	V/386, Release 4, Version 6.1		nno, mil 2	
	Integrity Enhancement Option				
	FIPS Sizing Defaults				
	FIPS Flagger				
	Trusted ORACLE7, Release 7.0	Embedded Ada	Hewlett-Packard 9000/807	HP 9000/7xx	
	NIST-93/7106 11/1/93	Pro*Ade, Version 1.5	HP-UX BLS, Version 8.08	HP-UX BLS Release 8.09	
	Features Tested:	Alsys Ada HP-B2425, Version A.05.35 Embedded C		HP-UX BLS Release 8.08	
	Level 2 ANSI SQL	Pro*C, Version 1.5		THE TON DECEMBER 0.00	
	Integrity Enhancement Option	HP C HP 92453-01, Version A.08.17			
	FIPS Sizing Defaults	,			
	-				

FIPS Flagger

VENDOR	PROCESSOR ID	INTERFACES	HARDWARE &	OTHER HW/OS	NONCON-
	VSR # & EXPIRY DATE	& COMPILERS	OPER. SYS.	& COMPILERS	FORMITIES
	Trusted ORACLE7, Release 7.0 NIST-93/7107 11/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Pro*Ada, Version 1.5 Alsys Ada HP-B2425, Version A.05.35 Embedded C Pro*C, Version 1.5 HP C HP 92453-01, Version A.08.17	Hewlett-Packard 9000/817 HP-UX BLS, Version 8.08	HP 9000/7xx HP-UX BLS Release 8.09 HP 9000/8xx HP-UX BLS Release 8.08	
	Trusted ORACLE7, Release 7.0 NIST-93/7108 11/1/93 Features Tested: Level 2 ANSI SCIL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Pro*Ada, Version 1.5 Alsys Ada HP-B2425, Version A.05.35 Emo*C, Version 1.5 HP C HP 92453-01, Version A.08.17	Hewlett-Packard 9000/847 HP-UX BLS, Version 8.08	HP 9000/7xx HP-UX BLS Release 8.09 HP 9000/8xx HP-UX BLS Release 8.08	
	Trusted ORACLE7, Release 7.0 NIST-93/7109 11/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Pro*Ada, Version 1.5 Alsys Ada HP-B2425, Version A.05.35 Embedded C Pro*C, Version 1.5 HP C HP 92453-01, Version A.08.17	Hewlett-Packard 9000/867 HP-UX BLS, Version 8.08	HP 9000/7:xx HP-UX BLS Release 8.09 HP 9000/8:xx HP-UX BLS Release 8.08	
	Trusted ORACLE7, Release 7.0 NIST-93/710A 11/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Pro*Ada, Version 1.5 AlsyComp_034, Version 5.1 Embedded C Pro*C, Version 1.5 SecureWare CMW+, Version 2.2 Native C	Zenith Data Systems Z-Station 433 DEh SecureWare CMW+, Version 2.2		
Software AG	ADABAS SQL Server, Version 1.1 NIST-63/7201 1/1/94 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C ADABAS Version 1.2 HP C Version A.08.17	HP 9000/817 HP/UX A.08.0.02		10 C
	ADABAS SQL Server, Version 1.1 NIST-63/7202 1/1/94 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded COBOL ADABAS Version 1.2 HP Micro Focus COBOL/2, Version 1.1 Rev. 002	HP 9000/817 HP/UX A.08.0.02		10 COBOL
	ADABAS SQL Server, Version 1.1 NIST-93/7203 1/1/94 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded COBOL ADABAS Version 5.3 COBOL II, Version 3.2	Hitachi HDS/EX90 MVS/ESA Version 4.2.2		10 COBOL
Sybase, Inc.	Sybase System 10/Version 5.0 Pre-release NIST-93/7051 11/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Schema Processor Sybase isql/4.2.5 Embedded C Sybase ESQL/C, Version 5.0 gcc V 2.1 Other Software Sybase Open Client Ct-library 5.0	Sun 4/75 SunOS 4.1.1		

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS	NONCON- FORMITIES
Unisys Corporation	SQLDB Mark 3.9 NIST-90/7011 1/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Module COBOL A Series COBOL ANSI-85, Version 2.0	Unlaya A15 Model H MCP/AS Mark 3.9	Unisys Micro A, A1, A2, A3, A A8, A9, A10, A12, A15, A16, A A19 MCP/AS Mark 3.9	
White Cross Systems Ltd.	WHITE CROSS 9000 Release 1.0.0 NIST-93/7251 1/1/94	Embedded C WHITE CROSS 9000 Client Utiliti Release 1.0.0	Client: Custom-built 80488- based PC MICROSOFT MS-DOS Version	1	
	Features Tested:	MICROSOFT C/C++ Optimizing	5.00		
	Level 2 ANSI SQL	Compiler Version 7.00	Server: WHITE CROSS 9000		
	FIPS Sizing Defaults	Communications FTP PC/TCP Version 2.05 (over Ethernet)	Model WCS/9010		
	WHITE CROSS 9000 Release 1.0.0	Embedded C	Client: NeXTstation		
	NIST-93/7252 1/1/94	WHITE CROSS 9000 Client Utiliti			
		Release 1.0.0	Server: WHITE CROSS 9000		
	Features Tested:	NeXTSTEP Objective C Release :	I.0 Model WCS/9010		
	Level 2 ANSI SQL FIPS Sizing Defaults	Communications TCP/IP software bundled with OS (over Ethernet)	3		
	WHITE CROSS 9000 Release 1.0.0	Embedded C	Client: Custom-built 80486-		
	NIST-93/7253 1/1/94	WHITE CROSS 9000 Client Utilitie Release 1,0.0	s based PC SCO UNIX SYSTEM V/386		
	Features Tested:	C Optimizing Compiler Version 5	•		
	Level 2 ANSI SQL	Communications	3.2		
	FIPS Sizing Defaults	TCP/IP software bundled with OS	Server: WHITE CROSS 9000		
		(over Ethernet)	Model WCS/9010		
	WHITE CROSS 9000 Release 1.0.0	Embedded C	Client: SPARCetation IPX		
	NIST-93/7254 1/1/94	WHITE CROSS 9000 Client Utilitis	s SunOS Release 4.1.2		
		Release 1.0.0	Server: WHITE CROSS 9000		
	Features Tested:	SPARCompiler C Version 2.0.1	Model WCS/9010		
	Level 2 ANSI SQL	Communications			
	FIPS Sizing Defaults	TCP/iP software bundled with OS (over Ethernet)			

4. GRAPHICS CONFORMANCE TESTING

4.1 FIPS GKS Standard

The Graphical Kernel System (GKS) is a two-dimensional graphics tool box which provides for the display and manipulation of pictures and graphical input from the operator. The purpose of GKS is to promote portability of graphics applications for use on a variety of graphics workstations. It provides a functional interface between an application program and a configuration of graphical devices. The interface is at such a level of abstraction that hardware peculiarities are shielded from the application program.

FIPS PUB 120-1, GKS, is the first Federal Information Processing Standard Publication (FIPS PUB) registered for computer graphics systems. In accordance with FIPS PUB 120-1, two-dimensional graphics toolbox packages acquired for Federal use after November 3, 1986 should implement FIPS GKS. Conformance testing of GKS implementations protects Federal investment by ensuring adherence to the graphics standard. FIPS PUB 120-1 requires that GKS implementations offered to Federal agencies be tested using the NIST Test Suite to ensure that a particular implementation meets the specifications of the FIPS. The GKS Validation Test Suite (Fortran) is available from:

Ms. Susan Sherrick National Institute of Standards and Technology Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3268

4.2 Organization of GKS Entries

The entries in the VPL for GKS implementations are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the implementation.
- The GKS NAME column contains the name of the implementation, its version number, the VSR number, and the Expiry date of the certificate of validation.
- The HARDWARE & OP. SYSTEM column presents the hardware and operating system environment used during the validation.
- The GRAPHICS DEVICES column includes the graphics devices that were validated.
- The GKS LEVEL column indicates the level of GKS that was validated.
- The entries in the OTHER HW/OS column include other hardware and operating system environments in which the processor operates.
- The NONCONFORMITIES column indicates whether or not the GKS implementation conforms to the applicable FIPS in one or more cases as evidenced by the validation. The VSR should be reviewed for details of the nonconformities.

4.3 FIPS CGM Standard

The Computer Graphics Metafile (CGM) is a data interchange standard suitable for the storage and retrieval of picture information in a device independent manner. The purpose of the CGM is to facilitate the transfer of graphical information among different computer systems, devices and/or applications.

The CGM application profile specified by Military Specification MIL-D-28003 adopts FIPS 128 and defines additional requirements. FIPS 128 in conjunction with MIL-D-28003 should be used when the representation of graphical information in digital form is to be used in technical illustrations and publications, and when the use of a gneral-purpose, graphical interchange mechanism is required.

The NIST CGM Test Suite test the degree to which a binary encoded CGM complies with FIPS 128 and MIL-D-28003.

4.3.1 CGM Test Labs and Test Suite

CGM Validation Testing is available from the National Institute of Standards and Technology through its Computer Systems Laboratory (NIST/CSL).

National Institute of Standards and Technology CGM Test Service Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3265

The CGM Validation Test Software is based on CTS/Metacheck, version 2.06 and is available for purchase from:

Advanced Technology Center 22982 Mill Creek Drive Laguna Hills CA 92653 (714) 583-9119

4.3.2 Certificate of Validation

A certificate of validation is issued for those CGM files that have been tested and are in compliance with FIPS 128 and/or the Military Specification MIL-D-28003. Conformance of a metafile does NOT necessarily imply conformance of the CGM generator, CGM interpreter, or other CGMs created on the same hardware and software platform.

4.3.3 Validation Procedures and Test Suite

CGM files are tested in accordance with procedures described in the NIST <u>Procedures for CGM Testing</u>. The current version of the Validation Test Software is Version 2.06. The validation procedures and information pack are available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
CGM Test Service
Room A266 Technology Building
Gaithersburg, MD 20899 Telephone (301) 975-3265

4.3.4 Validated Metafiles

The metafiles identified in Section 4.5 have been tested for conformity with FIPS PUB 128 and MIL-D-28003. Each entry in the VPL is a very limited extract from the Validation Summary Report (VSR) available from NIST/CSL.

4.4 GKS IMPLEMENTATIONS

VENDOR	GKS NAME EXPIRY & VSR #	HARDWARE & OP. SYSTEM	GRAPHICS DEVICES	GKS LEVEL	OTHER HW/OS	NONCON- FORMITIES
Advanced Technology	GRAFPAK-GKS Release 4.0	NCR 3450	X Window System V11	Level 2c		No
Center	12/1/93	Unix System V Release 4	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/967		Laser Printer)			
	GRAFPAK-GKS Release 4.0	NCR 3550	X Window System V11	Level 2c		No .
	12/1/93	Unix System V Release 4	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/968		Laser Printer)			
	GRAFPAK-GKS Release 4.0	IBM RS6000 Model 220	X Window System V11	Level 2c		No No
	12/1/93	AIX 3.2	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/969		Laser Printer)			
	GRAFPAK-GKS Release 4.0	IBM RS6000 Model 530H	X Window System V11	Level 2c		
	12/1/93	AIX 3.2	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/970		Laser Printer)			
	GRAFPAK-GKS Release 4.0	HP-9000/817	X Window System V11	Level 2c		No No
	12/1/93	HP-UX 8.08	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/971		Laser Printer)			
	GRAFPAK-GKS Release 4.0	HP-9000/827	X Window System V11	Level 2c		
	12/1/93	HP-UX 8.02	PostScript Portrait Oriented Workstation (using QMS PS 810			
	NIST/NCC-92/972		Laser Printer)			
	GRAFPAK-GKS Release 4.0	Sun Sparestation	X Window System V11	Level 2c		No
	12/1/93	Solaris 2.1	PostScript Portrait Orlented Workstation (using QMS PS 810			
	NIST/NCC-92/974		Laser Printer)			
Rutherford	RAL GKS V1.34	Sun 3/60	PostScript Portrait	2B Including RAL		No
Appleton _aboratory	5/1/93	SUNOS	Oriented Workstation Sun 3/60 Monochrome	GKSM Input, RAL GKSM Output, and		
	NIST/NCC-91/949	Release 4.0.3	Workstation running SunView Tektronix 4014-1	Workstation Independent Segment Storage		

4.5 COMPUTER GRAPHICS METAFILES

Client:

Interleaf, Inc

El Segundo, CA

VSR # & date:

NIST-M-92/003-001 9/2/92

CGM submitted/conforming:

1/1

8880

CGM/size/date:

asg.cgm

Generator:

Interleaf Inc MDL/G

Platform (as reported by vendor):

Interleaf 5 v5.3, HP9000/700, HP UX v8.07

Client:

IBM Corporation

Federal SEctor Division

Oswego, NY

VSR # & date:

NIST-M-92/005-002 10/28/92

CGM submitted/conforming:

5/5

CGM/size/date:

gcgm i220.cgm

5280 10/27/92

Generator:

GRAFPAK-CGM 1.1.2 Platform (as reported by vendor):

IBM RS6000 Model 220, AIX 3.2

CGM/size/date:

gcgm I530.cgm 5280

10/27/92

10/27/92

10/27/92

8/31/92

Generator:

GRAFPAK-CGM 1.1.2

Platform (as reported by vendor):

IBM RS6000 Model 530, AIX 3.2

CGM/size/date: Generator:

gcgm n345.cgm 5280

GRAFPAK-CGM 1.1.2

Platform (as reported by vendor):

NCR 3450, NCR UNIX SVR4

CGM/size/date:

gcgm_n355.cgm 5280

GRAFPAK-CGM 1.1.2 Generator: Platform (as reported by vendor):

NCR 3550, NCR UNIX SVR4

CGM/size/date:

Generator:

gks 1530.cgm

GRAFPAK-GKS 4.0

Platform (as reported by vendor): IBM RS6000 Model 530, AIX 3.2

23680 10/27/92

4 - 5

5. U.S. GOSIP TESTING PROGRAM REGISTER DATABASE SYSTEM (GRD)

5.1 Description

The United States Government Open Systems Interconnection Profile (GOSIP) Testing Program was defined to assist Federal Agencies in assuring conformance to the GOSIP Standard. Testing for conformance to the Open Systems Interconnection (OSI) standards and for interoperability with other OSI implementations is available.

NISTIR 4594, "GOSIP Conformance and Interoperation Testing and Registration" establishes the framework for the establishment of registers for Test Suites, Test Systems (Means of Testing), Conformance Testing Laboratories, and Interoperability Testing Services.

5.2 U.S. GOSIP Register Database (GRD)

The U.S. GOSIP Register Database (GRD) is an online database facility developed by NIST. It provides up-to-date reference information for the following list of registers:

- 1. U.S. GOSIP Abstract Test Suites (ATS).
- 2. Assessed Means of Testing (MOT).
- 3. NVLAP Accredited Test Laboratories.
- 4. Conformance Tested GOSIP Products.
- 5. Interoperability Test Suites (ITS) for OSI Products.
- 6. Reference Entities for Means of Testing Assessment(s).
- 7. Interworking GOSIP Products.
- 8. Interoperability Test and Registration Services.

5.3 How To Access the GOSIP Register Database (GRD)

The GRD can be accessed in two ways.

- 1. Using the Internet address 138.27.7.2 and logging on under the user-name "JITCL". No password is necessary.
- 2. Via a modem by dialing the phone number (602) 538-5233. Log in using the user-name "JITCL". No password is necessary. (Recommended modem configuration is 8-bits, 1 stop bit, no parity and baud rates of 1200 or 2400 speed.)

Currently, when using a modem, the GRD system allows for two simultaneous users only. If connection is not established please hang up and try again later.

Once connected the user will immediately be put into an introduction screen. After hitting the return key, a screen is presented to allow the user to select the appropriate terminal type. Enter the corresponding number from the list provided. After this the user is put into the main application menu. It is recommended to read the help option ("GRD Operation Information") first before performing any queries. The "GRD Operation Information" option is option three of the main menu. Option four, "U.S. GOSIP Register Information", gives general information about the U.S. GOSIP Testing Program and the

U.S. GOSIP REGISTER DATABASE SYSTEM, Continued

contents of the registers. Option five, "Register Directory", lists the registers and in turn allows the user to perform queries on the register contents.

For any questions, problems or comments dealing with the GRD or the U.S. GOSIP Testing Program please contact:

Ken Thomas
Joint Interoperability Test Center - TCBB
Fort Huachuca, AZ 85613-7020
(602) 538-5170
e-mail: C3A-TCB@huachuca-EMH2.army.mil

5.4.1 REGISTER OF CONFORMANCE TESTING LABORATORIES

Conformance Testing Laboratories for the U.S. GOSIP Testing Program are Ilsted here. All registered laboratories are deemed qualified to conduct conformance testing for U.S. GOSIP, for the Means of Testing Identified. Entries on this Register may be Full or Provisional. Provisional entries are assessed and awaiting formal NVLAP Accreditation; entries are valid for 12 months from the date of registration. Fully Registered entries are NVLAP Accredited; entries are valid until expiration, revocation or suspension of NVLAP Accreditation.

NVLAP Laboratory Code: 0355

Laboratory Name: Bull HN Conformance Test Center

13430 North Black Canyon Highway

P.O. Box 8000 Phoenix, AZ 85029

Contact and Phone: Oscar Hefner,

Tel (602) 862 6001

Fax (602) 862 6051

Scope of Registration: FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), Session, TP4,

CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0364

Laboratory Name: CDA Incorported

Open Systems Development Group 8301 Greensboro Drive Suite 610

Mclean, VA 22102-3603

Contact and Phone:

Kevin P. Murray Tel (703) 821 1858

Fax (703) 821 9859

Scope of Registration:

FTAM/ACSE/Presentation (Session), X.400

MHS: P2/P1/RTS/(Session), Session, TP0,

TP4, CLNP, X.25:PLP/HDLC Lap B

Type of Laboratory (1st, 2nd or 3rd Party): 3rd Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0354

Laboratory Name: Control Data Corp, OSI Conformance Test

Center

4201 North Lexington Avenue Arden Hills, MN 55126-6198

Contact and Phone:

Ronald Swan Tel (612) 482 6257 Fax (612) 482 3616

Scope of Registration: X.400 MHS: P2/P1/RTS/(Sessio), TP4, TP0,

CLNP, X.25:PLP/HDLC/LAP B

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993 NVLAP Laboratory Code: 0363

Laboratory Name: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Contact and Phone: Andrea Reitzel, Tel (703) 205 2809

Fax (703) 848 4572

FTAM/ACSE/Presentation(Session), X.400 Scope of Registration:

> MHS: P2/P1/RTS/(Session), TP4, TP0. CLNP, 8802.2/8802.3, X.25:PLP/HDLC Lap

Type of Laboratory (1st, 2nd or 3rd Party): 3rd Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1 1993.

NVLAP Laboratory Code: 0362

Laboratory Name: Digital Egulpment Corporation

OSI Conformance Interoperability Test Center

550 King Street Littleton, MA 01460

Contact and Phone: Kelth A. Clinkscales, Tel (508) 486 5496

Fax (508) 486 7414

Scope of Registration: FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), TP4, TPO, CLNP, X.25:PLP/HDLC Lap B

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0365

Laboratory Name: Hewlett-Packard, OSI Conformance Test Center

19420 Homestead Road Cupertino, CA 95014-9810

Contact and Phone:

Murali Subbarao, Tel (408) 447 2822

Fax (408) 447 3660

FTAM/ACSE/Presentation(Session), X.400 Scope of Registration

MHS: P2/P1/RTS/(Session), TP4, TP0,

CLNP.

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0361

Laboratory Name: IBM Corp - OSI Lower Layer Conformance Center

600 Park Place - Route 54

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact and Phone:

J.P. Streck, Tel (919) 254 4360

Fax (919) 254 5410

Scope of Registration: X.25 PLP/HDLC LAP B

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0357

Laboratory Name: The National Computing Centre Ltd

Oxford House, Oxford Road Manchester, M1 7ED United Kingdom

Contact and Phone:

A. E. J. Plnk Tel +44 61 228 6333

Fax +44 61 236 4715

Scope of Registration: FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), Session, TP4,

TPO, CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 3rd Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993

NVLAP Laboratory Code: 0367

Laboratory Name: UNISYS

Open System Interconnect Laboratory

P.O. Box 203

2450 Swedesford Road Paoll, PA 19301

Contact and Phone:

Andy Kalish, Tel (215) 993 7044

Fax (215) 993 7425

Scope of Registration:

FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), TP4, TP0,

CLNP, X.25:PLP/HDLC Lap B

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: July 1, 1993.

NVLAP Laboratory Code: 0371

Laboratory Name: ATI Conformance Accreditation and Test Center

7011 Koll Center Parkway, Suite #200

Pleasanton, CA 94566-3101

Contact and Phone:

Sanjay Lokare (510) 484-5674

(510) 484-4078

Scope of Registration:

FTAM/ACSE/Presentation(Session).

Session, TP4, TP0, CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 3rd Party

Type of Registration (Full or Provisional): Full

Registered Until: October 1, 1993

NVLAP Laboratory Code: 0385

Laboratory Name: Department of Defense

Joint Interoperability Test Center Fort Huachuca, AZ 85613-7020

Contact:

Mr. Kenneth Thomas (602) 538-5170

Fax (602) 538-2380

Scope of Registration: FTAM/ACSE/Presentation(Session),

Session, TP4, TP0, CLNP, 8802.2/8802.3,

X.25 PLP HDLC

Type of Laboratory: (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: April 1, 1993

NVLAP Laboratory Code: 0370

Laboratory Name: Conformance Expert Centre for OSI Bull-CECOB

rue Jean Jaures, B.P. 68 78430 Les Clayes/Bois, France

Contact and Phone: Gerard Vanderschooten Tel+33 1 30 80 68 11

Fax+33 1 30 80 78 79

Scope of Registration: Session, TP4, TP0, CLNP, 802.2, 802.3,

X.25: PLP:/HDLC LAP B

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: October 1, 1993

NVLAP Laboratory Code: 0391

Laboratory Name: Data General Corporation

OSI Conformance Test Center 4400 Computer Drive, MS/D216

Westboro, MA 01580

Contact and Phone: Charles Stakus Tel (508) 870-6392

Fax (508) 898-4694

Scope of Registration: FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), Session, TP4,

TPO, CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: October 1, 1993

NVLAP Laboratory Code: 0392

Laboratory Name: IBM - ROME Networking Systems Laboratory

OSI Conformance and Interoperability Dept

via P. dl Dono, 44

00144 Rome, Italy

Contact and Phone: Michael Sullivan Tel +39 6 5187 2517

Fax +39 6 5187 2467

Scope of Registration: FTAM/ACSE/Presentation(Session), X.400

MHS: P2/P1/RTS/(Session), Session, TP4,

TPO, CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 1st Party

Type of Registration (Full or Provisional): Full

Registered Until: October 1, 1993

NVLAP Laboratory Code: 0394

Laboratory Name: Telecommunications Laboratories Test Center

P.O. Box 71

Chung-Li, 329 Taiwan

Contact and Phone: Ching-Sung Lu Tel +886 3 424-4377

Fax +886 3 490-4464

Scope of Registration: FTAM, SESSION, TP4, TP0, CLNP

Type of Laboratory (1st, 2nd or 3rd Party): 3 Party

Type of Registration (Full or Provisional): Full

Registered Until: October 1, 1993

5.4.2 REGISTER OF APPROVED US GOSIP MOT VALIDATION LABORATORIES

NVLAP Laboratory Code: 0385

Laboratory Name: Department of Defense

Joint Interoperability Test Center Fort Huachuca, AZ 85613-7020

Contact: Mr. Kenneth Thomas Tel (602) 538-5170

Scope of Registration: FTAM/ACSE/Presentation(Session).

Session, TP4, TP0, CLNP, 8802.2/8802.3,

X.25 PLP HDLC

Type of Laboratory: MOT Qualification

Type of Registration (Full or Provisional): Full

Registered Until: March 1994.

RNE Accreditation Number: 77.90/01

Laboratory Name: ACERLI

5, Voie Verte

92260 Fontenay-aux-Roses

France

Contact: Mr. J-P Baconnet Tel +33 1 46 38 35 08

Fax +33 1 46 38 82 05

Scope of Registration: FTAM, MMS, and 8804/4

Type of Laboratory: MOT Qualification

Type of Registration (Full or Provisional): Full

Registered Until: March 1994.

5.4.3 REGISTER OF CONFORMANCE TESTED GOSIP PRODUCTS

Products which have been tested in accordance with the GOSIP program of conformance testing are listed here. These Products relate to the protocols identified in FIPS 146 GOSIP, Version 1. For further details of each Product listed please contact the named supplier. Entries are registered according to the provisions of the "GOSIP Conformance and Interoperation Testing and Registration" proposed FIPS.

P-1 WAN Products

Supplier: A.T. & T. Computer Systems 307 Middletown - Lincroft Road

Lincroft, NJ 07738

Contact: Reginald Lewis, Tel (908) 898-6005,

Fax (908) 898-3717

GOSIP Product Name, Release and Date:

AT & T X.25 Network Interface Product,

Release 2.0, January 1991.

Hardware and Operating System Platform(s):

AT & T 6386 StarServer S (or StarServer E), UNIX System V, Release 4.0; GPSC-AT, or GPSC-AT/E Synchronous

Card

Base/Derived: Base

Connectivity: X.21 (bls), V.35, RS 232C

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: April 9, 1991

Type of Registration:

Provisional, based on use of ATS-1 and

ATS-2 GOSIP Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360, Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3745 Op. Sys. MVS/XA

Network Control Program (NCP) V5R4 System

Support Program (SSP) V3R6 Virtual Telecommunications

Access Method (VTAM) Version 3

Base/Derived: Base

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of ATS-1 and

ATS-2 GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195 Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck,

Tel (919) 254-4360, Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface

Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3745; Op. Sys. MVS/SP Network Control Program (NCP) V5R4; System Support Program (SSP) V3R6; Virtual Telecommunications Access

Method (VTAM) Version 3

Base/Derived: Base

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of

ATS-1 and ATS-2 GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM 6611 Network Processor Model 140 Version 1.0, June

26, 1992

Hardware and Operating System Platform(s):

IBM 6611 Network Processor; Op. Sys. Based on AIX V 3.2 for RISC sys/6000 IBM Multiprotocol Network Program

Base/Derived: Derived

Connectivity: V.24 or RS-232C, (X.21 bis) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64k

bps

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and 1984 version. TCP/IP to compatible TCP/IP systems.

Qualified Logical Link Controller (QLLC)

Date Registered: March 25, 1992

Type of Registration:

Provisional, based on use of ATS-1, GOSIP

Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM 6611 Network Processor Model 170

Version 1.0, June 26, 1992

Hardware and Operating System Platform(s):

IBM 6611 Network Processor

Op. Sys. Based on AIX Version 3.2 for RISC sys/6000

IBM Multiprotocol Network Program

Base/Derived: Derived

Connectivity: V.24 or RS-232C, (X.21 bis) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64k

bps

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and

1984 version. TCP/IP to compatible TCP/IP systems,

Qualified Logical Link Controller (QLLC)

Date Registered: March 25, 1992

Type of Registration:

Provisional, based on use of ATS-1 GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360, Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface

Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3745 Op. Sys. MVS/ESA Network Control Program (NCP) V5R4 System Support

Program (SSP) V3R6 Virtual Telecommunications Access

Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration:

Provisional, based on use of

ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195

Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck.

Tel (919) 254-4360.

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface

Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3745

Op. Sys. VM/XA: Network Control Program (NCP) V5R4:

System Support Program (SSP) V3R6; Virtual

Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of

ATS-1 and ATS-2, GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360, Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface

Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3720

Op. Sys. MVS/SP

Network Control Program (NCP) V5R4

System Support Program (SSP) V3R6

Virtual Telecommunications Access Method (VTAM) Ver 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of

ATS-1 and ATS-2 GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Laver Conformance Center

600 Park Place-Route 54, P.O. Box 12195

Research Triangle Park, NC 27709-2195

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360 Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3720
Op. Sys. VM/SP; Network Control Program (NCP) V5R4
System Support Program (SSP) V3R6; Virtual
Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN vla X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of

ATS-1 and ATS-2, GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3720

Op. Sys. VM/XA; Network Control Program (NCP) V5R4

System Support Program (SSP) V3R6 Virtual

Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195 Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3720

Op. Sys. MVS/ESA; Network Control Program (NCP) V5R4;

System Support Program (SSP) V3R6; Virtual

Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3720

Op. Sys. MVS/XA; Network Control Program (NCP) V5R4;

System Support Program (SSP) V3R6; Virtual

Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance

Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360 Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM X.25 NCP Packet Switching Interface Version 3 Release 4, June 28, 1991

Hardware and Operating System Platform(s):

Communications Controllers IBM 3745

Op. Sys. VM/SP; Network Control Program (NCP) V5R4

System Support Program (SSP) V3R6; Virtual Telecommunications Access Method (VTAM) Version 3

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820)

Terminal Adapter)

Protocole and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: July 10, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AS/400 X.25 Communication Support Program

Version 2 Release 1, May 24, 1991

Hardware and Operating System Platform(s):

Processor IBM 9406

Op. Sys. OS/400 V2 R1

Base/Derived: Base

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: September 25, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: International Business Machines Corp.

Conformance Center for OSI Lower Layers

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AS/400 X.25 Communication Support Program

Version 2 Release 1, May 24, 1991

Hardware and Operating System Platform(s):

Processor IBM 9402

Op. Sys. OS/400 V2 R1

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: September 25, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: International Business Machines

Corporation

Conformance Center for OSI Lower Lavers

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

P.O. Box 12195

Research Triangle Park, NC 27709-2195

Contact: John P. Streck, Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AS/400 X.25 Communication Support Program

Version 2 Release 1, May 24, 1991

Hardware and Operating System Platform(s):

Processor IBM 9404 Op. Sys. OS/400 V2 R1

Base/Derived: Derived

Connectivity: V.24 or RS-232-C, V.35, X.21 switched and

non-switched, ISDN via X.21 connection (IBM 7820

Terminal Adapter)

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: September 25, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: International Business Machines Corp.

Conformance Center for OSI Lower Layers

P.O.Box 12195

Research Triangle Park, NC 27709-2195

Supplier: Harris Adacom Corporation

16001 Dallas Parkway Dallas, Texas 75248

Contact: Gregory Prynn, Tel (214) 386-2000,

Fax (214) 386-2239

GOSIP Product Name, Release and Date:

Challenger ES/174-20 Release 2.1, October 7, 1991

Hardware and Operating System Platform(s): Challenger ES/174-20 Release 2.1

DTE/DCE Environment

Base/Derived: Base

Connectivity: RS 232 WAN Port

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 17, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive McLean, VA 22102

Supplier: Harris Adacom Corporation

16001 Dallas Parkway Dallas, Texas 75248

Contact: Gregory Prynn, Tel (214) 386-2000,

Fax (214) 386-2524

GOSIP Product Name, Release and Date:

Challenger ES/174-10
Release V2.1, October 7, 1991

Hardware and Operating System Platform(s):

Challenger ES/174-10 V2.1

Base/Derived: Derived

Connectivity: RS 232 WAN Port

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 30, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive #610

McLean, VA 22102

Supplier: Harris Adacom Corporation 16001 Dallas Parkway

Dallas, Texas 75248

Contact: Gregory Prynn, Tel (214) 386-2000,

Fax (214) 386-2524

GOSIP Product Name, Release and Date:

Challenger ES/174-60

Release V2.1, October 7, 1991

Hardware and Operating System Platform(s):

Challenger ES/174-60 V 2.1

Base/Derived: Derived

Connectivity: RS 232 WAN Port

Protocols and Profiles:

X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 30, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, incorporated

8301 Greensboro Drive #610

McLean, VA 22102

Supplier: Memorex TELEX Corporation

Federal Systems

205 Van Buren Street, Suite #180

Herdon, VA. 22070

Contact: Kevin Good, Tel (703) 318-5600,

Fax (703) 318-7575

GOSIP Product Name, Release and Date:

1174-60R Version B1.3 October 17, 1991

Hardware and Operating System Platform(s):

1174-60R Version B1.3

Base/Derived: Base

Connectivity: RS-232-C

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 30, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive #610

McLean VA. 22102

Supplier: Memorex TELEX Corporation

Federal Systems

205 Van Buren Street, Suite #180

Herdon, VA. 22070

Contact: Kevin Good Tel (703) 318-5600,

Fax (703) 318-7575

GOSIP Product Name, Release and Date:

1174-10R Version B1.3 October 17, 1991

Hardware and Operating System Platform(s):

1174-10R Version B1.3

Base/Derived: Derived

Connectivity: RS-232-C WAN Port

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 30, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive #610

McLean VA. 22102

Supplier: Memorex TELEX Corporation

Federal Systems

205 Van Buren Street, Suite #180

Herdon, VA. 22070

Contact: Kevin GoodTel Tel (703) 318-5600,

Fax (703) 318-7575

GOSIP Product Name, Release and Date:

1174-90R Version B1.3 October 17, 1991

Hardware and Operating System Platform(s):

1174-90R Version B1.3

Base/Derived: Derived

Connectivity: RS-232-C WAN Port

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: October 30, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive #610

McLean VA. 22102

Supplier: McData Corporation

310 Interlocken Parkway
Broomfield, CO 80021-3464

Contact: Steve Cartwright.

ht, Tel (303) 460-9200

Fax (303) 465-4996

GOSIP Product Name, Release and Date:

LinkMaster 7100 Model 20R

Release 3.0, November 11, 1991

Hardware and Operating System Platform(s):

LinkMaster 7100 Model 20R

Base/Derived: Base

Connectivity: RS232 / V.35, X.21

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: December 17, 1991

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive, Suite 610 McLean VA. 22102-3603

Supplier: McData Corporation

310 Interlocken Parkway

Broomfield, CO 80021-3464

Contact: Steve Cartwright Tel (303) 460-9200

Fax (303) 465-4996

GOSIP Product Name, Release and Date:

LinkMaster 7100 Model 10

Release 3.0, November 11, 1991

Hardware and Operating System Platform(s):

LinkMaster 7100 Model 10

Base/Derived: Derived

Connectivity: RS232 / V.35, X.21

Protocols and Profiles:

1984 CCITT X.25 PLP/ X.25 HDLC LAP B

Date Registered: January 29, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Incorporated

8301 Greensboro Drive, Suite 610

McLean VA. 22102-3603

Supplier: McData Corporation 310 Interlocken Parkway Broomfield, CO 80021-3464

Contact: Steve Cartwright

Tel (303) 460-9200 Fax (303) 465-4996

GOSIP Product Name, Release and Date: LinkMaster 7100 Model 60 Release 3.0. November 11, 1991

Hardware and Operating System Platform(s): LinkMaster 7100 Model 60

Base/Derived: Derived

Connectivity: RS232 / V.35, X.21

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: January 29, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2 GOSIP Version 1

Conformance Lab Used: CDA, Incorporated 8301 Greensboro Drive, Sulte 610 McLean VA. 22102-3603

Supplier: McData Corporation 310 Interlocken Parkway Broomfield, CO 80021-3464

Contact: Steve Cartwright

Tel (303) 460-9200 Fax (303) 465-4996

GOSIP Product Name, Release and Date: LinkMaster 7100 Model 90 Release 3.0, November 11, 1991

Hardware and Operating System Platform(s): LinkMaster 7100 Model 90

Base/Derived: Derived

Connectivity: RS232 / V.35, X.21

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: January 29, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2 GOSIP Version 1

Conformance Lab Used: CDA, Incorporated 8301 Greensboro Drive, Suite 610 McLean VA. 22102-3603 Supplier: Control Data Corporation 4210 North Lexington Avenue Arden Hills, MN 55126-6198

Contact: Ronald D. Swan

Tel (612) 482-6527 Fax (303) 465-4996

GOSIP Product Name, Release and Date:

CDCNET

Version 1.6.1 L780AB, March 1, 1992

Hardware and Operating System Platform(s): CDCNET Device Interface

Base/Derived: Base

Connectivity: X.21 (RS232C)

Protocols and Profiles:

1984 X.25 PLP/ X.25 HDLC LAP B

Date Registered: January 30, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: Control Data OSI Conformance Test

Center ARH215

Arden Hills, NM, 55126-6198

Supplier: Data General Corporation 4400 Computer Drive Westboro, MA 01580

Contact: Charles Stakus,

Tel (508) 870-6392 Fax (508) 898-4694

GOSIP Product Name, Release and Date: X.25 for AViiON Systems Release 2.20, February 1, 1992

Hardware and Operating System Platform(s):

AViiON 5000/6000 Series

DG/UX System for AViiON Computers, Revision 5.4.1

Base/Derived: Base

Connectivity: RS232C

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208, CCITT for X.25

Version 1984. CCITT X.25, 1980 Subnetwork Access

Date Registered: February 18, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: International Business Machines Corporation

11400 Burnet Road Austin TX, 78758-3493

Contact: John P. Streck

Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AIX for RISC System/6000, X.25 WAN Spt, for IBM 7011, All Models. Version 3.2, February 28, 1992

Hardware and Operating System Platform(s):

RISC System/6000 Products

Op. Sys. IBM AIX Version 3.2 for RISC system/6000

Base/Derived: Base

Connectivity: V.24 or RS-232-C. (X.21) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64K

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and 1984version. OSI to compatible OSI systems.

TCP/IP to compatible TCP/IP systems.

Date Registered: March 25, 1992

Type of Registration: Provisional, based on use of ATS-1

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

11400 Burnet Road Austin TX, 78758-3493

Contact: John P. Streck

Tel (919) 254-4360.

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AIX for RISC System/6000, X.25 WAN Spt, for IBM

7012, All Models. Version 3.2, February 28, 1992

Hardware and Operating System Platform(s):

RISC System/6000 Products

Op. Sys. IBM AIX Version 3.2 for RISC system/6000

Base/Derived: Base

Connectivity: V.24 or RS-232-C, (X.21) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64K

bps.

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980

and 1984 version. OSI to compatible OSI systems.

TCP/IP to compatible TCP/IP systems.

Date Registered: March 25, 1992

Type of Registration: Provisional, based on use of ATS-1

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Laver Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

11400 Burnet Road Austin TX, 78758-3493

Contact: John P. Streck

Tel (919) 254-4360,

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AIX for RISC System/6000, X.25 WAN Spt, for IBM 7013, All Models. Version 3.2, February 28, 1992

Hardware and Operating System Platform(s):

RISC System/6000 Products

Op. Sys. IBM AIX Version 3.2 for RISC system/6000

Base/Derived: Base

Connectivity: V.24 or RS-232-C, (X.21) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64K

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and 1984 version. OSI to compatible OSI systems. TCP/IP to

compatible TCP/IP systems.

Date Registered: March 25, 1992

Type of Registration: Provisional, based on use of ATS-1

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

11400 Burnet Road Austin TX, 78758-3493

Contact: John P. Streck

Tel (919) 254-4360.

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AIX for RISC System/6000, X.25 WAN Spt, for IBM 7015, All Models. Version 3.2, February 28, 1992

Hardware and Operating System Platform(s):

RISC System/6000 Products

Op. Sys. IBM AIX Version 3.2 for RISC system/6000

Base/Derived: Base

Connectivity: V.24 or RS-232-C, (X.21) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64K

bps.

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and 1984 version. OSI to compatible OSI systems. TCP/IP to

compatible TCP/IP systems.

Date Registered: March 25, 1992

Type of Registration: Provisional, based on use of ATS-1

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195

Research Triangle Park, NC 27709-2195

Supplier: International Business Machines Corporation

11400 Burnet Road Austin TX, 78758-3493

Contact: John P. Streck

Tel (919) 254-4360, Fax (919) 254-5410

GOSIP Product Name, Release and Date:

IBM AIX for RISC System/6000, X.25 WAN Spt, for IBM 7016, All Models. Version 3.2, February 28, 1992

Hardware and Operating System Platform(s):

RISC System/6000 Products

Op. Sys. IBM AIX Version 3.2 for RISC system/6000

Base/Derived: Base

Connectivity: V.24 or RS-232-C, (X.21) non-switched up to 19.2K

bps, V.35 up to 56K bps, X.21 non-switched up to 64K

bps.

Protocols and Profiles:

Conforms to ISO 7776 and ISO 8208 for CCITT 1980 and 1984 version. OSI to compatible OSI systems.

TCP/IP to compatible TCP/IP systems.

Date Registered: March 25, 1992

Type of Registration: Provisional, based on use of ATS-1

GOSIP Version 1

Conformance Lab Used: IBM-OSI Lower Layer Conformance Center

600 Park Place-Route 54, P.O. Box 12195 Research Triangle Park, NC 27709-2195

Supplier: Encore Computing Corporation

6901 West Sunnise Boulevard Ft. Lauderdale, FL, 33313-4499

Contact: Augie Gonzales

Tel (305) 587-2900,

Fax (305) 797-5807

GOSIP Product Name, Release and Date:

Encore Infinity 90 Series GPIO I with EnComm X.25

and PAD, Revision 3.0, 1 July 1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO with VME Serial

Synchronous Controller (VSSC) Model 8523-443 UMAX

3.0.7

Base/Derived: Base

Connectivity: RS-232

Protocols and Profiles:

1984 CCITT X.25 PLP/HDLC Lap B

Date Registered: June 24, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used: CDA, Inc.

8301 Greensboro Drive, #610

McLean, VA. 22102

Supplier: NCR

9900 Old Grove Road San Diego Ca, 92131

Contact: Ms. Wendy Morrision

Tel 619-693-5665 Fax 619-693-5705

GOSIP Product Name, Release and Date:

1) NCR MUOE HDLC Version 1.04 (lower Layer)
2) NCR System 3000 X.25 Network Services Version 1.04, (Packet Layer), Release date 1 August 1992

Hardware and Operating System Platform(s):

NCR System 3000, Consisting of the following models,

3320, 3340, 3447, 3450, 3550, 3600

NCR UNIX SVR4 (Multi Processing RISC Architecture

System, MP-RAS), Version 2.0

Base/Derived: Base Connectivity: RS-232

Underlying Stack: None

Protocols and Profiles:

1) HDLC LAPB (IS 7776)

2) X.25 PLP (IS 8208)

Date Registered: September 9, 1992

Type of Registration:

Provisional, based on use of ATS-1 and

ATS-2 GOSIP Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: NETRIX

13595 Dulles Technology Drive

Herndon, VA 22071

Contact: Mr. Ted Ritter

Tel 703-742-6000

Fax 703-742-4048

GOSIP Product Name, Release and Date:

NETRIX #1-ISS GOSIP X.25, GOSIP X.25 INTERFACE

MODULE

Version 1.0, Release 1 Sptember 1992

Hardware and Operating System Platform(s):

NETRIX #1-ISS Series 1.0, NETRIX O/S Release 2.7

Base/Derived: Base

Connectivity: RS-232

Underlying Stack: None

Protocols and Profiles:

X.25 PLP/X.25 HDLC LAP-B

Date Registered: October 6, 1992

Type of Registration:

Provisional, based on use of ATS-1 and

ATS-2 GOSIP Version 1

CDA, Inc. NVLAP #0364 Conformance Lab Used:

8301 Greensboro Drive, Suite 610

McLean, Virginia 22102-3603

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Meyian France

Contact: Mr. Tom Hull

Tel +33 76 41 42 18 Fax +33 76 41 41 42 41

GOSIP Product Name, Release and Date:

SUNNET X.25

Version 7.0.1, Release 1 October 1992

Hardware and Operating System Platform(s):

SUN 4/75, SUNNET O/S 4.1.2 (SOLARIS 1.0.1)

Base/Derived: Base

... ...

Connectivity: RS-232

. no-232

Chaples No.

Underlying Stack: None

Protocols and Profiles:

X.25 PLP/X.25 HDLC LAP-B

Date Registered: October 7, 1992

Type of Registration: Provisional, based on use of ATS-1 and ATS-2

GOSIP Version 1

Conformance Lab Used:

CDA, Inc, NVLAP #0364 8301 Greensboro Drive, Suite 610

McLean, Virginia 22102-3603

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

X.25 PSCS SIRA & PCRs (up to 1929 Inclusive)

October 1, 1992

Hardware and Operating System Platform(s):

DCP-15, O/S DCP/OS 5R2A, TELCON 9R1A

Base/Derived: Base

Connectivity: RS-232 & V.35

Underlying Stack: None

Protocols and Profiles:

Type of Registration:

X.25 LAP B / X.25 PLP

Date Registered: October 19, 1992

Provisional, based on use of ATS-1 & ATS-2,

GOSIP Version 1

Conformance Lab Used: UNISYS Corporation NVLAP #0367

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: IBM

3605 Highway 52 North Rochester, MN 55091-7829

Contact: Mr. John P. Streck

Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

AS/400 X.25, Version 2, Release 2, September 25, 1992

Hardware and Operating System Platform(s):

AS/400, Model IBM 9404, O/S, OS/400, Ver 2, Rel 2

Base/Derived: Base

Connectivity: WAN RS-232 / V.35

Underlying Stack: None

Protocols and Profiles:

CCITT and ISO X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2.

GOSIP Version 1

Conformance Lab Used:

IBM Corporation

Conformance Test CEnter for OSI

Lower Layer, NVLAP 0361

P.O. Box 12195

Research Triangle Park, NC 27709

Supplier: IBM

3605 Highway 52 North Rochester, MN 55091-7829

Contact: Mr. John P. Streck

Tel (919) 254-4360

Fax (919) 254-5410

GOSIP Product Name, Release and Date:

AS/400 X.25, Version 2, Release 2, September 25, 1992

Hardware and Operating System Platform(s):

AS/400, Model IBM 9402, 9406, O/S, OS/400, Ver 2, Rel 2

Base/Derived: Derived

Connectivity: WAN RS-232 / V.35

Underlying Stack: None

Protocols and Profiles:

1984 CCITT and ISO X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2.

GOSIP Version 1

Conformance Lab Used:

IBM Corporation

Conformance Test CEnter for OSI

Lower Layer, NVLAP 0361

P.O. Box 12195

Research Triangle Park, NC 27709

Supplier: IBM

3605 Highway 52 North Rochester, MN 55091-7829

Contact: Mr. John P. Streck

Tel (919) 254-4360 Fax (919) 254-5410

GOSIP Product Name, Release and Date:

X.25 Network Control Program Packet Switching Interface, Version 3, Release 5, September 25, 1992

Hardware and Operating System Platform(s):

IBM 3745 Communication Controller Network Control

Program, Version 6

Base/Derived: Base

Connectivity: WAN RS-232 and V.35

Underlying Stack: None

Protocols and Profiles:

CCITT and ISO X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2.

GOSIP Version 1

Conformance Lab Used:

IBM Corporation

Conformance Test CEnter for OSI

Lower Layer, NVLAP 0361

P.O. Box 12195

Research Triangle Park, NC 27709

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Bill George

Tel (602) 862-6008

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 B.O.S. (stack B), Version/Release, B.O.S. 2 October

1, 1992

Hardware and Operating System Platform(s):

DPX/2 200 with MTB Board, O/S, B.O.S. 2

Base/Derived: Base

Connectivity: WAN

Underlying Stack: None

Protocols and Profiles:

1984 CCITT X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2.

GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles

78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Bill George

Tel (602) 862-6008

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 B.O.S. (stack B), Version/Release, B.O.S. 2 October

1, 1992

Hardware and Operating System Platform(s):

DPX/2 200 with ECP Board, O/S, B.O.S. 2

Base/Derived: Base

Connectivity: WAN

Underlying Stack: None

Protocols and Profiles:

1984 CCITT X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2,

GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles 78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Bill George

Tel (602) 862-6008

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DATANET DCP 7500, Version/Release DNS V4 U1, January

1992

Hardware and Operating System Platform(s):

DCP 7500, O/S, DNS Version 4, U1

Base/Derived: Base

Connectivity: WAN

Underlying Stack: None

Protocols and Profiles:

1984 CCITT X.25 PLP / X.25 HDLC LAP B

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-1 & ATS-2,

GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB 68 Route de Versailles 78430 Louveciennes

France

P-2 LAN Products

Supplier: Bull HN Information Systems

Technology Park

Billerica, MA 01821-4199

Contact: Kenneth B. Finkenauer, OSI Program Manager

(508) 294-2909/2699

GOSIP Product Name, Release and Date:

Local Area Controller Subsystem (LACS) (8802/2,8802/3)

Hardware and Operating System Platform(s):

DPS6000/HVS6 Release 2

Base/Derived: Base

Connectivity: 8802/3 10 Base 5 PLS

Protocols and Profiles:

ISO 8802/2, 8802/3

Date Registered: April 1, 1991

Type of Registration: Provisional, based on use of ATS-3 and ATS-6

GOSIP Version 1

Conformance Lab Used:

Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: 3COM Corporation

5600 Bayfront Plaza P.O. Box 58145 Technology Park

Santa Clara, CA 95052-8145

Contact: Howard Chan

Tel (408) 764-5827

GOSIP Product Name, Release and Date:

Ethernet 16, 3C507/Revision A, August 1, 1990

Hardware and Operating System Platform(s):

PC AT 386, MS DOS 3.3

Base/Derived: Base

Connectivity: 8802/3 Base 5 PLS

Protocols and Profiles:

ISO 8802/3

Date Registered: February 14, 1992

Type of Registration:

Provisional, based on use of ATS-3 (PLS &

MAC) GOSIP Version 1

Conformance Lab Used:

Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: Control Data Corporation

4201 North Lexington Ave Arden Hills, MN, 55126-6198

Contact: R.D. Swan

Tel (612) 482-6257

Fax (612) 482-3616

GOSIP Product Name, Release and Date:

CDCNET Ethernet Serial Channel Interface

LLC/MAC 1.7.1, PLS 1.6.1, Release October 1, 1992

Hardware and Operating System Platform(s):

Device Interface Model #GH120B, Equipment #DY0227-B,

Product #2608-6 (Stand-alone Machine), O/S None

Base/Derived: Base

Connectivity: 802.2 (LLC) / 802.3 (MAC/PLS)

Underlying Stack: None

Protocols and Profiles:

LLC1 / MAC / PLS

Date Registered: October 15, 1992

Provisional, based on use of ATS-3 and Type of Registration:

ATS-6 GOSIP Version 1

Corporation for Open Systems Conformance Lab Used:

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

P-3 INTERMEDIATE System

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665

Fax (703) 556-5172

GOSIP Product Name, Release and Date:

DCP OSITS, Version 2R1A plus PCRs 192-194, 197.

199, 202, 203, 205, 207, Release April 8, 1992

Hardware and Operating System Platform(s):

DCP-15 through DCP-55 Front End Processors, O/S

DCP/OS 5R2A, TELCON 9R1A

Base/Derived: Base

Connectivity: 802.2 (LLC) / 802.3 (MAC) and X.25

WAN - PSCS (Version 51RA & PCRs), DCP-15, Underlying Stack:

LAN - LAM Platform 2R2A, DCP 802.3 Lan Line

Module, Feature #F5137-00

Protocols and Profiles:

Type of Registration:

CLNP / IS

Date Registered: October 16 1992

Provisional, based on use of ATS-7/1,

GOSIP Version 1

UNISYS Corporation NVLAP #0367 Conformance Lab Used:

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

P-4 TRANSPORT Products

Supplier: Hewlett-Packard Company 19420 Homestead Road Cupertino, CA 95014-9810

Contact: Murali Subbarao

Tel (408) 447-2822 Fax (408) 447-3660

Marketing Bruce Talley,

Tel (408) 447-3599, Fax (408) 447-3660

GOSIP Product Name, Release and Date:

HP OSI/Transport Services/9000, P/N 32070A, Version C.02.00, June 10, 1991

Hardware and Operating System Platform(s):

HP 9000 Series 800/ HP-UX Operating System, Version 8.0

Base/Derived: Base

Connectivity: LAN/9000 Link for HP 9000 Series 800, P/N 36967A

Protocols and Profiles:

IS 8073, Transport Class 4/IS 8473, CLNP

Date Registered: May 28, 1991

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used:

Hewiett-Packard OSI Conformance

Center

19420 Hornstead Road Cupertino, CA 95014

Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22 Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

MVS/ESA V3R1

Base/Derived: Base

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

IS 8073, Transport Class 0

Date Registered: November 1, 1991

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory

OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610, France Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22 Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem, Version 1 Release 1.1

December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390, MVS/ESA V3R1

Base/Derived: Base

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Transport Class 4, (ISO 8073)/CLNP (IS 8473)/X.25

(CCITT)

Date Registered: February 12, 1992

Type of Registration: Provisional, based on use of ATS-7 and ATS-9

GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory
OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610. France

Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22 Fax 33 93 24 71 57

Fax 33 93 24 / 1 5/

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

MVS/ESA V3R1

Base/Derived: Base

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Transport Class 4 (IS 8073)/X.25 (CCITT)

Date Registered: February 12, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory
OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610, France

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22

Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

VM/EŠA V1Ř1

Base/Derived: Derived

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Type of Registration:

IS 8073, Transport Class 0

Date Registered: November 1, 1991

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OS! Conformance Testing Laboratory

OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610. France

Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44

Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22

Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

MVS/XA V2R2

Base/Derived: Derived

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Type of Registration:

IS 8073, Transport Class 0

Date Registered: November 1, 1991

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory

OSI Competence and Services Department

CER IBM - BP 05

La Gaude 06610, France

Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44

Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22

Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

MVS/XA V2R2 VM/SP R5 VM/ESA V1R1

Base/Derived: Derived

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Transport Class 4, (IS 8073)/X.25 (CCITT)

Date Registered: February 12, 1992

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory

OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610, France

Supplier: International Business Machines Corporation

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22

Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390

MVS/XA V2R2 VM/SP R5 VM/ESA V1R1

Base/Derived: Derived

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

Transport Class 4, (IS 8073)/CLNP (IS 8473)/X.25 (CCITT)

Date Registered: February 12, 1992

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610, France

Rome Networking Systems Laboratory

Via Di Dono, 44 Rome, Italy 00143

Contact: Gerard Bonnes

Tel 33 92 11 41 22

Fax 33 93 24 71 57

GOSIP Product Name, Release and Date:

OSI/Communications Subsystem

Version 1 Release 1.1 December, 1990

Hardware and Operating System Platform(s):

IBM System/370, System/390 VM/SP R5

Base/Derived: Derived

Connectivity: X.25, provided by IBM NCP Packet Switching Interface

Protocols and Profiles:

IS 8073, Transport Class 0

Date Registered: November 1, 1991

Type of Registration: Provisional, based on use of ATS-7 and ATS-9

GOSIP Version 1

Conformance Lab Used: IBM Corporation

OSI Conformance Testing Laboratory
OSI Competence and Services Department

CER IBM - BP 05 La Gaude 06610, France

Supplier: Control Data Corporation

4201 North Lexington Ave Arden Hills, MN, 55126-6198

Contact: J.F. Carey

Tel (612) 482-2567 Fax (612) 482-2791

GOSIP Product Name, Release and Date:

Control Data EP/IX Access and Directory Version 1.4.2, November 27, 1991

Hardware and Operating System Platform(s):

Control Data 4000

Control Data EP/IX Version 1.4.2

Base/Derived: Base

Connectivity: 8802/3 10 Base 5 PLS

Protocols and Profiles:

Transport Class 4 (IS 8073) CLNP (IS 8473)

Date Registered: February 25, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used:

Control Data Corporation, OSI

Accrediated

Test Center 4201 North Lexington Ave Arden Hills, MN 55126-6198 Contact: Ms. Jan Provan

Supplier: Novell, Inc.

Tel (408) 473-8422

Fax (408) 433-9827

GOSIP Product Name, Release and Date:

2180 Fortune Drive

San Jose, Ca. 95131

NetWare FTAM Transport Component

Version 1.2, Revision B, April 20, 1992

Hardware and Operating System Platform(s):
AST Preminum 386/33 with 8 Mb Ram

Novell 3.11 Operating System over Novell NE2000 Ethernet Card (802.3)

Base/Derived: Base

Connectivity: CLNP/8802/2/802.3

Novell 3.11 Operating System over

Novell NE2000 Ethernet Card

Protocols and Profiles:

Transport Class 4 (IS 8073) CLNP (IS 8473)

Date Registered: June 24, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used:

National Computing Centre Ltd

Manchester, UK

Oxford House, Oxford Road Manchester, M1 7ED UK

Supplier: Novell, Inc.

2180 Fortune Drive San Jose, Ca, 95131

Contact: Ms. Jan Provan

Tel (408) 473-8422

Fax (408) 433-9827

GOSIP Product Name, Release and Date:

NetWare FTAM Transport Component Version 1.2, Revision B, April 20, 1992

Hardware and Operating System Platform(s):

AST Preminum 386/33 with 8 Mb Ram Novell 3.11 Operating System over Novell NE2000 Ethemet Card (802.3)

Base/Derived: Derived

Connectivity: CLNP/Novell 3.11 Operating System over

8802.2 (LLC)/8802.4 (MAC), NE2000 and IBM 4 Mbs

Token Ring Card

Protocols and Profiles:

Transport Class 4 (IS 8073) CLNP (IS 8473)

Date Registered: June 24, 1992

Type of Registration: Provisional, based on use of ATS-7 and ATS-9

GOSIP Version 1

Conformance Lab Used:

National Computing Centre Ltd

Manchester, UK

Oxford House, Oxford Road Manchester, M1 7ED UK Supplier: NCR

9900 Old Grove Road San Diego Ca, 92131

Contact: Ms. Wendy Morrision

Tel 619-693-5665 Fax 619-693-5705

GOSIP Product Name. Release and Date:

NCR UNIX OSI Network Services, Version 2.00.02, April 17, 1992

Hardware and Operating System Platform(s):

NCR System 3000, Consisting of the following models,

3320, 3340, 3445, 3447, 3450, 3550, 3600

NCR UNIX SVR4, (Multi Processing RISC Architecture

System), Version 2.0

Base/Derived: Base

Connectivity: 8802.2 (LLC), 8802.3 (MAC)

NCR System 3000 Integrated LAN Driver, Version 2.00.

using Western Digital (WD8003

Protocols and Profiles:

Transport Class 4 (IS 8073) CLNP (IS 8473)

Date Registered: August 7, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9 GOSIP Version 1

Conformance Lab Used:

Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: NCR

9900 Old Grove Road San Diego Ca, 92131

Contact: Ms. Wendy Morrision

Tel 619-693-5665

Fax 619-693-5705

GOSIP Product Name, Release and Date:

NCR OSI Network Services Version 2.0.1, September 8, 1992

Hardware and Operating System Platform(s):

NCR System 3000, Consisting of the following models,

3320, 3340, 3445, 3447, 3450, 3550, and 3600 NCR UNIX SVR4, (Multi Processing RISC Architecture

System), Version 2.0

Base/Derived: Base

Type of Registration:

Connectivity: X.25, NCR Multi-Protocol Communications

Adapter/MC, Part #902-1002052, Firmware Version 1.1A

Underlying Stack: NCR MUOE HDLC, NCR X.25 Network

Services, Version 1.04

Protocols and Profiles:

Transport Class 0 (IS 8073)

Date Registered: October 27, 1992

Provisional, based on use of ATS-8 GOSIP

Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: NCR

9900 Old Grove Road

San Diego Ca, 92131

Contact: Ms. Wendy Morrislon

Tel 619-693-5665

Fax 619-693-5705

GOSIP Product Name, Release and Date:

NCR UNIX OSI Network Services

Version 2.01, September 8, 1992

Hardware and Operating System Platform(s):

NCR System 3000, Consisting of the following models,

3320, 3340, 3445, 3447, 3450, 3550, and 3600 NCR UNIX SVR4, (Multi Processing RISC Architecture

System), Version 2.0

Base/Derived: Derived

Connectivity: X.25, NCR Multi-Protocol Communications

Adapter/MC, Part #902-1002052, Firmware Version 1.1A

Underlying Stack: NCR MUOE HDLC, NCR X.25 Network Services,

Version 1.04

Protocols and Profiles:

Transport Class 4 (IS 8073), CLNP (ISO 8473)

Date Registered: October 27, 1992

Type of Registration:

Provisional, based on use of ATS-8 GOSIP

Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, VA 22031

Supplier: Digital Equipment Corporation

Digital Park

Reading, England RG2 OTE

Contact: Mr. Bill Daley

Tel Fax

GOSIP Product Name, Release and Date:

DECnet-VAX TM EXTENSIONS V5.4A/VOTS V3.0A

Release date 1 April 1992

Hardware and Operating System Platform(s):

Digital VAX Computer with VMS V.5.4A+ Operasting

System

Base/Derived: Base

Connectivity: 8802.2 (LLC), 8802.3 (MAC)

Protocols and Profiles:

Transport Class 4 (IS 8073) CLNP (IS 8473)

Date Registered: August 16, 1992

Type of Registration: Provisional, based on use of ATS-7 and ATS-9

GOSIP Version 1

Conformance Lab Used:

Digital Equipment Corporation

550 King Street

Littleton, MA 01460-1289

Supplier: Encore Computing Corporation

6901 West Sunrise Boulevard Ft. Lauderdale, FL, 33313-4499

Contact: Augle Gonzales

Tel (305) 587-2900 Fax (305) 797-5807

GOSIP Product Name, Release and Date:

EnComm ISO Transport Services Version 3.0.0, 1 August

1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO UMAX Version 3.0.7

Base/Derived: Base

Connectivity: CLNP / 8802.2 LLC / 8802.3 MAC

Underlying Stack: CLNP / 8802.2 LLC / 8802.3 MAC

Protocols and Profiles:

Transport Class 4, ISO 8073

Date Registered: August 31, 1992

Type of Registration:

Provisional, based on use of ATS-9 GOSIP

Version 1

Conformance Lab Used:

CDA, Inc.

Open Systems Development Group 8301 Greensboro Drive, Suite 610 McLean, VA. 22102-3603

Supplier: Encore Computing Corporation 6901 West Sunrise Boulevard Ft. Lauderdale, FL. 33313-4499

Contact: Augie Gonzales

Tel (305) 587-2900

Fax (305) 797-5807

GOSIP Product Name, Release and Date:

EnComm ISO Transport Services Version 3.0.0, 1 August

1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO UMAX Version 3.0.7

Base/Derived: Base

Connectivity: RS-232

Underlying Stack: X.25

Communications Interface:

VME Serial Synchronous Controller (VSSC) VSSC

Transition Panel (RS232)

Protocols and Profiles:

Transport Class 0, ISO 8073

Date Registered: August 31, 1992

Type of Registration:

Provisional, based on use of ATS-8 GOSIP

Version 1

Conformance Lab Used: CDA, Inc.

Open Systems Development Group

8301 Greensboro Drive, Suite 610

McLean, VA. 22102-3603

Supplier: Encore Computing Corporation

6901 West Sunrise Boulevard Ft. Lauderdale, FL, 33313-4499

Contact: Augle Gonzales

Tel (305) 587-2900

Fax (305) 797-5807

GOSIP Product Name, Release and Date:

EnComm ISO Transport Services Version 3.0.0, 1 August 1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO UMAX Version 3.0.7

Base/Derived: Base

Connectivity: 8802.2/8802.3 OR

1984 x.25 PLP/HDLC Lap B, RS-232

Underlying Stack: EnComm VME Ethemet Driver OR

EnComm X.25 and PAD Revision 3.0
- UMAX Version 3.0.7 Operating System

- VME Serial Synchronous Controller (VSSC)

#8523-444

- VME Ethemet Controller #8513-047 (LAN Only)

Protocols and Profiles:

CLNP, (ISO 8473)

Date Registered: August 31, 1992

Type of Registration: Provisional, based on use of ATS-7 GOSIP

Version 1

Conformance Lab Used: CDA, Inc.

Open Systems Development Group 8301 Greensboro Drive, Suite 610

McLean, VA. 22102-3603

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665

Fax (703) 556-5172

GOSIP Product Name, Release and Date:

CMS 1100/OSITS, Versions/Releases 7R2B plus PCR 15312/2R1A plus PCRs 192, 193, 194, 197, Release 1

March

1992

Hardware and Operating System Platform(s):

2200 System and 1100/90 Processors, DCP-15 through DCP-55 Front End Processors. O/S OS1100 exec on Processor, DCP/OS Version 5R2A, TELCON 9R1A on Front

End Processors

Base/Derived: Base

Connectivity: 802.2 (LLC) / 802.3 (MAC)

Underlying Stack: LAN Platform 2R2A, DCP 802.3 LAN Line Module

Feature #: F5137-00

Protocols and Profiles:

Transport Class 4, (ISO 8073) / CLNP, ISO 8473

Date Registered: September 1, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used: UNISYS

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: Data General Corporation

4400 Computer Drive P.O. Box MS D 134 Westborough, MA 01580

Contact: Mr. Charles Stakus

Tel (508) 870-6392 Fax (508) 898-4694

GOSIP Product Name, Release and Date:

OSI/Platform for AViiON Systems, Version 3.0, Release

June 1, 1992

Hardware and Operating System Platform(s):

AViiON 5000/6000 Series, O/S DG/UX for AViiON Systems,

Version 5.4.1

Base/Derived: Base

Connectivity: X.25

Underlying Stack: X.25

Protocois and Profiles:

Type of Registration:

Transport Class 0, (ISO 8073)

Date Registered: October October 23, 1992

Version 1

Conformance Lab Used: ATI's Conformance Acreditation Test

Center NVLAP #0371

7011 Koii Cenetr Parkway, Suite 200

Provisional, based on use of ATS-8, GOSIP

Pleasanton, CA 94566-3101

Supplier: Data General Corporation

4400 Computer Drive P.O. Box MS D 134 Westborough, MA 01580

Contact: Mr. Charles Stakus

Tel (508) 870-6392

Fax (508) 898-4694

GOSIP Product Name, Release and Date:

OSI/Platform for AViiON Systems, Version 3.0, Release

June 1, 1992

Hardware and Operating System Platform(s):

AVIION 5000/6000 Series, O/S DG/UX for AVIION Systems,

Version 5.4.1

Base/Derived: Base

Connectivity: 802.2/802.3

Underlying Stack: 802.2/802.3

Protocols and Profiles:

Conformance Lab Used:

Transport Class 4, (ISO 8073) / CLNP, (ISO 8473)

Date Registered: October 23, 1992

Type of Registration: Provisional, based

Provisional, based on use of ATS-78 and

ATI's Conformance Acreditation Test

ATS-9, GOSiP Version 1

Center

NVLAP #0371

7011 Koii Cenetr Parkway, Suite 200

Pleasanton, CA 94566-3101

Supplier: SynOptics Communications, Inc.

4401 Great America Parkway Santa Clara, CA 95052-8185

Contact: Mr. Brian Sheffer

Tei (703) 684-2627

Fax (703) 684-5115

GOSIP Product Name, Release and Date:

Encore EnComm ISO Transport Services - with SynOptics LattisNet Model 3030 Concentrator, Release 3.0.0, Release

date Aug 1, 1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO I, O/S UMAX V3.0.7

Base/Derived: Base

Connectivity: 802.2 (LLC) / 802.3 (MAC)/PLS/Physical Media

Underlying Stack: 802.2 LLC/802.3 MAC

Protocois and Profiles:

CLNP over LAN

Date Registered: October 27, 1992

Type of Registration: Provisional, based on use of ATS-7, GOSiP

Version 1

Conformance Lab Used: CDA, Inc. NVLAP #364

8301 Greensboro Drive, Suite 610 McLean, Virginia, 22102-3603

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Meylan France

Contact: Mr. Tom Huii

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUNNET OSI Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN SPARC Station 2-4/75, SUN O/S 4.1.2 (Solaris)

Base/Derived: Base

Connectivity: 802.2 (LLC1) / 802.3 (MAC)

Underlying Stack: S

board

SUNNET OSI Version 7.1 LLC1 (HW) Sun CPU

LAN, interface (iEEE 802.3 CSMAICD Access

Mehtod

Protocois and Profiles: TP4/CLNP

1P4/CLNP

Date Registered: October 14, 1992

Type of Registration:

Provisional, based on use of ATS-7, and

ATS-9, GOSiP Version 1

Conformance Lab Used: National

National Computing Centre Ltd.,

NVLAP # 0357 Oxford Road

Manchester M1 7ED UK

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

DCP OSITS, Version 2R1A plus PCRs 192, 193, 194, 197, 199, 202, 203, 205, 207, Release March 1, 1992

Hardware and Operating System Platform(s):

DCP-15 through DCP-55 Front End Processors, O/S DCP/OS 5R2A (4/8/92), TELCON 9R1A (4/8/92)

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: X.25 LAP B/X.25 PLP

Protocols and Profiles:

Transport Class 4, (ISO 8073) / CLNP, ISO 8473 OR

Transport Class 4, (ISO 8073)

Date Registered: October 19, 1992

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Open System Interconnect Laboratory

2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

CMS 1100/OSITS, Version 7R2B plus PCR 15312/2R1A 199, 202, 203, 205, 207,

plus PCRs 192, 193, 194, 197, Release March 1, 1992

Hardware and Operating System Platform(s):

OS1100 Exec. Cersion 43R2 running on 2200 systems and 1190/90 Processors DCP-15 through DCP-55 Front End Processors, O/S OS1100 Exec. on Procesors DCP/OS 5R2A, TELCON 9R1A on Front End Processors

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: X.25 PSCS Version 51RA plus PCRs 1891-1899,

1902, 1911, 1923, 1929

Protocols and Profiles:

Transport Class 4 (ISO 8073) / CLNP (ISO 8473)

Date Registered: October 16 1992

Type of Registration: Provisional, based on use of ATS-7, GOSIP

Version 1

Conformance Lab Used: UNISYS Corporation NVLAP #0367

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

DCP OSITS, Version 2R1A plus PCRs 192, 193, 194, 197, 199, 202, 203, 205, 207, Release March 1, 1992

Hardware and Operating System Platform(s):

DCP-15 through DCP-55 Front End Processors, O/S DCP/OS Version 5R2A (4/8/92) and TELCON Version 9R1A (4/8/92)

Base/Derived: Base

Connectivity: 802.2 (LLC) / 802.3 (MAC)

Underlying Stack: Lan Platform 2R2A, DCP 802.3 LAN Line Module,

Feature #F5137-00

Protocols and Profiles:

Transport Class 4 (ISO 8073) / CLNP (ISO 8473)

Date Registered: October 19, 1992

Type of Registration: Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used: UNISYS Corporation NVLAP #0367

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

DCP OSITS, Version 2R1A plus PCRs 192, 193, 194, 197, 199, 202, 203, 205, 207, Release March 1, 1992

Hardware and Operating System Platform(s):

DCP-15 through DCP-55 Front End Processors, O/S DCP/OS Version 5R2A (4/8/92) and TELCON Version

9R1A (4/8/92)

Base/Derived: Base

Connectivity: X.25

Underlying Stack: X.25 LAP B / X.25 PLP

Protocols and Profiles:

Transport Class 0 (ISO 8073)

Date Registered: October 19, 1992

Type of Registration:

Provisional, based on use of ATS-8, GOSIP

Version 1

Conformance Lab Used:

UNISYS Corporation NVLAP #0367 Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: Control Data Corporation

4201 North Lexington Ave Arden Hills, MN, 55126-6198

Contact: Mr. R. D. Swan

Tel (612) 482-6257

Fax (612) 482-3616

GOSIP Product Name, Release and Date:

CDCNET, Version/Release 1.6.1/B720, March 1, 1992

Hardware and Operating System Platform(s):

CDCNET Device Interface DY-227B, O/S None

Base/Derived: Base

Connectivity: WAN

Underlying Stack: X.25

Protocols and Profiles:

Transport Class 0 (IS 8073)

Date Registered: November 9, 1992

Type of Registration:

Provisional, based on use of ATS-8 GOSIP

Version 1

Conformance Lab Used:

Control Data Corporation, OSI

Accrediated

Test Center

4201 North Lexinnaton Ave. Arden Hills, MN 55126-6198

Supplier: Data General Corporation

4400 Computer Drive P.O. Box MS D 134 Westborough, MA 01580

Contact: Mr. Charles Stakus

Tel (508) 870-6392 Fax (508) 898-4694

GOSIP Product Name, Release and Date:

OSI/Platform for AViiON Systems, Version 3.0, Release

June 1, 1992

Hardware and Operating System Platform(s):

AViiON 5000/6000 Series, O/S DG/UX for AViiON Systems,

Version 5.4.1

Base/Derived: Derived

Connectivity: IS 8208 X.25 PLP / IS 7776 HDLC

Underlying Stack: X.25 for AViiON Systems, Version 2.2.0

Protocols and Profiles:

Transport Class 4, (ISO 8073) / CLNP, (ISO 8473)

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Data General OSI Conformance Test

Center

4400 Computer Drive

MS D 216

Westborough, MA 01580

Supplier: Bull Information Systems, Inc.

13430 North Black Canvon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 B.O.S. (stack B), Version/Release 2, October

Hardware and Operating System Platform(s):

DPX/2 200, O/S, B.O.S. 2

Base/Derived: Base

Connectivity: X.25

Underlying Stack: DPX/2 X.25 Packet Layer

DPX/2 X.25 Frame Layer

Protocols and Profiles:

Type of Registration:

Transport Class 0, IS 8073

Date Registered: November 13, 1992

Provisional, based on use of ATS-8, GOSIP

Version 1

Conformance Lab Used: Bull S.A. CECOB

68 Route de Versailles 78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DATANET DCP 7500, Version/Release DNS V4 U1, January

1, 1992

Hardware and Operating System Platform(s):

DCP 7500, O/S, DNS Version 4, U1

Base/Derived: Base

Connectivity: X.25

Underlying Stack: DATANET DCP 7500 X.25 Packet Layer

DATANET DCP 7500 X.25 Frame Layer

Protocols and Profiles:

Transport Class 0 IS 8073

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-8, GOSIP

Version 1

Conformance Lab Used:

Bull S.A. CECOB 68 Route de Versailles

78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 B.O.S. (stack B), Version/Release 2, October

Hardware and Operating System Platform(s):

DPX/2 200, O/S, B.O.S. 2

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: DPX/2 X.25 Packet Laver

DPX/2 X.25 Frame Layer

Protocols and Profiles:

Transport Class 4, IS 8073, CLNP IS 8473

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB 68 Route de Versailles

78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DATANET DCP 7500, Version/Release DNS V4 U1, January

1. 1992

Hardware and Operating System Platform(s):

DCP 7500, O/S, DNS Version 4, U1

Base/Derived: Base

Connectivity: CLNP/LAN

Underlying Stack: DATANET DCP 7500, IS 8473

DATANET DCP 7500, IS 8802.2/3

Protocols and Profiles:

Transport Class 4 IS 8073, CLNP IS 8473

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles

78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 B.O.S. (stack B), Version/Release 2, October

1, 1992

Hardware and Operating System Platform(s):

DPX/2 200, O/S, B.O.S. 2

Base/Derived: Base

Connectivity: LAN

Underlying Stack: DPX/2 ISO 8802.2/3 (LAN)

Protocols and Profiles:

Transport CLass 4, IS 8073, CLNP IS 8473

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles 78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DPX/2 Version/Release (Stack B), October 1, 1992

Hardware and Operating System Platform(s):

DPX/2 200, O/S, B.O.S. 2

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: DPX/2 X.25 Packet Layer

DPX/2 X.25 Frame Layer

Protocols and Profiles:

Transport Class 4, IS 8073

Date Registered: November 13, 1992

Provisional, based on use of ATS-9, GOSIP Type of Registration:

Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles 78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DATANET DCP 7500, Version/Release V4 U1, January 1,

1992

Hardware and Operating System Platform(s):

DCP 7500, O/S, DNS Version 4, U1

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: DATANET DCP 7500 X.25 Packet Laver

DATANET DCP 7500 X.25 Frame Layer

Protocols and Profiles:

Transport Class 4 IS 8073

Date Registered: November 13, 1992

Type of Registration: Provisional, based on use of ATS-9, GOSIP

Version 1

Conformance Lab Used:

Bull S.A. CECOB 68 Route de Versailles 78430 Louveciennes

France

Supplier: Bull Information Systems, Inc.

13430 North Black Canyon Highway

Phoenix, AZ 85029

Contact: Mr. Oscar V. Hefner

Tel (602) 862-6001

Fax (602) 862-6105

GOSIP Product Name, Release and Date:

DATANET DCP 7500, Version/Release DNS V4 U1, January

1, 1991

Hardware and Operating System Platform(s):

DCP 7500, O/S, DNS Version 4, U1

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: DATANET DCP 7500 X.25 Packet Layer

DATANET DCP 7500 X.25 Frame Layer

Protocols and Profiles:

Transport Class 4 IS 8073, CLNP IS 8473

Date Registered: November 13, 1992

Type of Registration:

Provisional, based on use of ATS-7 and

ATS-9, GOSIP Version 1

Conformance Lab Used:

Bull S.A. CECOB

68 Route de Versailles 78430 Louveciennes

France

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Mevlan France

Contact: Mr. Tom Hull

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUNNET OSI, Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN SPARC Station 2-4/75, SUN O/S 4.1.2 (Solaris 1.0.1)

Base/Derived: Derived

Connectivity: X.25

Underlying Stack: SUNNET X.25, Version 7.0.1, Release 1

Protocols and Profiles:

IS 8073, Transport Class 4, IS 8473, CLNP

Date Registered: November 25, 1992

Type of Registration:

Provisional, based on use of ATS-7, and

ATS-9, GOSIP Version 1

Conformance Lab Used:

National Computing Centre Ltd.,

NVLAP # 0357

Oxford Road

Manchester M1 7ED UK

P-5 SESSION Products

Supplier:

U.S. Contact:

GOSIP Product Name, Release and Date:

Hardware and Operating System Platform(s):

Base/Derived:

Connectivity:

Protocols and Profiles:

Date Registered:

Type of Registration and Expiration Date:

None

P-6 X.400 Products

Supplier: Hewlett-Packard Company

19420 Homestead Road Cupertino, CA 95014-9810

Contact: Murali Subbarao

Tel (408) 447-2822 Fax (408) 447-3660

Marketing Todd Goldman,

Tel (408) 447-2645, Fax (408) 447-3660

GOSIP Product Name, Release and Date:

HP X.400/9000 P/N HP32032A, Version C.02.00, June 10, 1991 (X400 Interface) HP OpenMail, P/N B1600A, V.A. 00.02.03, June 10, 1991

Hardware and Operating System Platform(s):

Session/Transport: HP OSI Transport Services/9000 Series 800. HP 9000 Series 800/ HP-UX Operating System, Version 8.0

Base/Derived: Base

Connectivity: LAN/9000 Link for HP 9000 Series 800, P/N 36967A

Protocols and Profiles:

CCITT X.400 1984 Series P1, P2, and RTS

CCITT X.225 ISO 8327 Session

Date Registered: August 19, 1991

Type of Registration: Provisional, based on use of ATS-15,

ATS-14, ATS-13 and ATS-10 (MHS Subset)

GOSIP Version 1

Conformance Lab Used: Hewlett-Packard OSI Conformance Center

19420 Homestead Road Cupertino, CA 95014

P-6 MHS Products

Supplier: UNISYS Corporation

8008 WestbrookDive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

OS 1100 OSI-MHS DDp-PPC: 5RIA & PCR 987, Version

OSI-HS 2R1B, Release May 6, 1992

Hardware and Operating System Platform(s):

1100/90 and 2200 Series Processors, O/S 1100 Exec.,

Version 43R2

Base/Derived: Base

Connectivity: TP4/CLNP/LAN (802.3)

Underlying Stack: TP4/CLNP/LAN (802.3)

Protocols and Profiles:

MHS (X.400) P2/P1/RTS/Session (X.25)

Date Registered: September 10, 1992

Type of Registration: Provisional, based on use of ATS-10, ATS-

13, ATS-14, and ATS-15, GOSIP Version 1

Conformance Lab Used: UNISYS

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: UNISYS Corporation

8008 Westbrook Drive McLean, VA 22102

Contact: Mr. Keith Fretz

Tel (703) 556-5665 Fax (703) 556-5172

GOSIP Product Name, Release and Date:

DDP-PPC & OS 1100 OSI-MHS, Version DDP-PPC 5RIA +

PCR 987, Release March 30, 1992

Hardware and Operating System Platform(s):

Model 1100/90 or any 2200 Series System and DCP-15 through DCP-55 Front End Processors, O/S 1100 Exec.,

Version 43R2 and TELCON Version 9R1A

Base/Derived: Derived

Connectivity: TP4 or TP0

Underlying Stack: TP4/CLNP/X.25 GOSIP Product 105/P4.2 TP4/X.25 GOSIP Product 105/P4.3

TP0/X.25 GOSIP Product 105/P4.4

Protocols and Profiles:

MHS P2/P1/RTS/Session Date Registered: October 16, 1992

Type of Registration:

Provisional, based on use of ATS-10, ATS-

14, ATS-15, and ATS-16, GOSIP Version 1

Conformance Lab Used:

UNISYS Corporation, NVLAP #0367 Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Meylan France

Contact: Mr. Tom Hull

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUN NET MHS Gateway, Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN 4, Station 2-4/75, SUN O/S 4.0.3, 4.1, 4.1.1

Base/Derived: Base

Connectivity: P1/RTS/Session

Underlying Stack: TP4/CLNP/LLC1/802.3

Protocols and Profiles:

P1. RTS. Session

Date Registered: October 14, 1992

Type of Registration:

Provisional, based on use of ATS-10, ATS-13

and ATS-14, GOSIP Version 1

Conformance Lab Used: National Computing Centre Ltd.,

NVLAP # 0357 Oxford Road

Manchester M1 7ED UK

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Mevian France

Contact: Mr. Tom Huli

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUN NET MHS, Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN 4, Station 2-4/75, SUN O/S 4.0.3, 4.1, 4.1.1

Base/Derived: Derived

Connectivity: P1/RTS/Session

Underlying Stack: TP0/X.25

Protocols and Profiles:

P1. RTS. Session

Date Registered: November 25, 1992

Type of Registration: Provisional, based on use of ATS-10, ATS-13

and ATS-19, GOSIP Version 1

Conformance Lab Used:

National Computing Centre Ltd.,

NVLAP # 0357 Oxford Road

Manchester M1 7ED UK

Supplier: Data General Corporation

4400 Computer Drive P.O. Box MS D 134 Westborough, MA 01580

Contact: Mr. Charles Stakus

Tel (508) 870-6392 Fax (508) 898-4694

GOSIP Product Name, Release and Date:

X.400 for AViiON Systems, Version/Release 3.10 (X.400 for AVIION Systems/3.0 (OSI for AVIION), August 1, 1992

Hardware and Operating System Platform(s):

AVIION Series 5000, VSC Synchronous Comms Controller,

O/S DG/UX Release 5.4.1, AV/X.25 Release 2.2.0

Base/Darived: Base

Connectivity: TP0/X.25

Underlying Stack: TP0/X.25

Protocols and Profiles:

MHS Relay (P1, RTS, Session)

Date Registered: December 1, 1992

Provisional, based on use of ATS-10, ATS-

13, ATS-14, ATS-15, GOSIP Version 1

Conformance Lab Used:

Type of Registration:

Data General OSI Conformance Test

Center

4400 Computer Drive

MS D 216

Westborough, MA 01580

P-7 FTAM Products

Supplier: Hewlett-Packard Company

19420 Homestead Road Cupertino, CA 95014-9810

Contact: Kelly Emo,

Tel (408) 447-2822

Fax (408) 447-3660

Marketing Todd Goldman,

Tel (408) 447-2645

Fax (408) 447-3660

GOSIP Product Name, Release and Date: HP FTAM/9000 Series 800

Version C.02.03, June 10, 1991

Hardware and Operating System Platform(s):

HP 9000 Series 800 computers which support LAN/9000 link

product.

HP 9000 Series 800/HP-UX Operating System, Version 8.0

Base/Derived: Base

Connectivity: ISO 8073 Transport Class 4, CLNP/802.3

Protocols and Profiles:

IS 8571 FTAM: IS 8650 ACSE: IS 8823 Presentation

FTAM Session Platform

Date Registered: January 30, 1992

Type of Registration:

Provisional, based on use of ATS-16, and

ATS-10 (FTAM Subset)

GOSIP Version 1

Conformance Lab Used: Hewlett-Packard OSI Conformance Center

19420 Homestead Road Cupertino, CA 95014

Supplier: Novell, Inc.

2180 Fortune Drive San Jose, Ca, 95131

Contact: Ms. Jan Provan

Tel (408) 473-8422

Fax (408) 433-9827

GOSIP Product Name, Release and Date:

NetWare FTAM

Version 1.2, Revision B, April 20, 1992

Hardware and Operating System Platform(s):

FTAM Initiator Hub and Responder: AST Preminum 386/33; NetWare 3.11;

Novell Ethernet Card

FTAM Initiator Executable:

AST Preminum 386/33; DOS 3.3;

Novell NE2000 Ethernet Card

Base/Derived: Base

Connectivity:

FTAM/ACSE/PRESENTATION/SESSION/CLNP/TP4/8802/2

(LLC)/802.3 MAC

Protocols and Profiles:

IS 8571 FTAM, IS 8650 ACSE, IS 8823 Presentation, IS

8327 FTAM Subset Embedded Session

Date Registered: June 24, 1992

Type of Registration:

Provisional, based on use of ATS-10 (FTAM

Subset) GOSIP Version 1

National Computing Centre Ltd Conformance Lab Used:

Manchester, UK

Oxford House, Oxford Road Manchester, M1 7ED UK

Supplier: NCR

9900 Old Grove Road San Diego Ca. 92131

Contact: Ms. Maureen Murphy

Tel 619-693-5802

GOSIP Product Name, Release and Date: NCR OSI STAR PRO FTAM. Version 2.00.00, July 1, 1992

Hardware and Operating System Platform(s):

NCR System 3000, UNIX System V Release 4, Consisting of the following models, 3320, 3340, 3345, 3447, 3600 Version 2.00.XX

Base/Derived: Base

Connectivity: FTAM/ACSE/PRESENTATION/SESSION/CLNP/TP4/8

02.2(LLC)/802.3(MAC)

Protocols and Profiles:

IS 8571 FTAM, IS 8650 ACSE, IS 8823 PRESENTATION, IS

8327 FTAM Subset Embedded Session

Date Registered: August 7, 1992

Type of Registration: Provisional, based on use of ATS-16 (FTAM

Subset), GOSIP Version 1

Conformance Lab Used: Corporation for Open Systems

Suite 700

8260 Willow Oaks Corporate Drive

Fairfax, Virolnia 22031

Supplier: Digital Equipment Corporation

550 King Street Littleton, MA 01460

Contact: Ms. Lanan Porooshani

Tel (508) 486-7123 Tel (508) 486-5496 Mr. Keith Clinkscales

GOSIP Product Name, Release and Date:

DECNET-VAX (TM) EXTENSIONS V5.4A/VAX FTAM 2.0A.

March

Hardware and Operating System Platform(s):

Digital VAX with VMS V5.4 and DECnet-VAX V5.4

Extensions

Base/Derived: Base

Connectivity: FTAM/ACSE/PRESENTATION/SESSION/CLNP/TP4/8

02.2(LLC)/802.3(MAC)

Protocols and Profiles:

IS 8571 FTAM, IS 8650 ACSE, IS 8823 PRESENTATION, IS

8327 FTAM Subset Embedded Session

Date Registered: August 16, 1992

Type of Registration: Provisional, based on use of ATS-16 (FTAM

Subset), GOSIP Version 1

Digital Equipment Corporation Conformance Lab Used:

550 King Street Littleton, MA 01460 Supplier: UNISYS

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoll. PA 19301

Contact: Mr. Ed Kelly

Tel (215) 993-7208

GOSIP Product Name, Release and Date:

OSI-FTAM Release 2R1A, 3 May 1992

Hardware and Operating System Platform(s):

1100/90 and 2000 series systems OS1100 Release 1.

43R1

DCP-15 through DCP-55 DCP/OS Version

5R2A/TELCON,

Version 9R1a

Base/Derived: Base

Connectivity: FTAM/ACSE/PRESENTATION/SESSION/TP4/CLNP/8

02.2(LLC)/802.3(MAC)

Protocols and Profiles:

IS 8571 FTAM, T1 Simple File Transfer, IS 8650 ACSE, IS

8823 PRESENTATION, IS 8327 FTAM Subset Embedded

Session

Date Registered: September 1, 1992

Type of Registration: Provisional, based on use of ATS-16 (FTAM

Subset), GOSIP Version 1

Conformance Lab Used: UNISYS

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: Encore Computing Corporation

6901 West Sunrise Boulevard Ft. Lauderdale, FL, 33313-4499

Contact: Augle Gonzales,

Tel (305) 587-2900.

Fax (305) 797-5807

GOSIP Product Name, Release and Date:

EnComm FTAM Version 2.0.1, 1 September 1992

Hardware and Operating System Platform(s):

Encore Infinity 90 Series GPIO, O/S UMAX Version 3.0.7

Base/Derived: Base

Connectivity: FTAM/ACSE/Presentation/Session/CLNP/TP4/802.2

LLC/802.3 MAC

Protocols and Profiles:

IS 8571 FTAM, IS 8650 ACSE, IS 8823 Presentation, IS

8327 FTAM Subset Embedded Session, T1 Simple

File Transfer

Date Registered: September 23, 1992

Type of Registration:

Provisional, based on use of ATS-16 (FTAM

Subset) GOSIP Version 1

Conformance Lab Used: CDA, Inc.

Open Systems Development Group 8301 Greensboro Drive, Suite 610

McLean, VA. 22102-3603

GOSIP REGISTERS, Continued

Supplier: UNISYS Corporation

2450 Swedesford Road

Paoli, PA 19301

Contact: Mr. Ed. Kelly

Tel (215) 993-7208

GOSIP Product Name, Release and Date:

OSI-FTAM, Release 2R1A, 3 May 1992

Hardware and Operating System Platform(s):

1) 1100/90 and 2200 Series Processors, O/S 1100 Exec.,

Version 43R1

2) DCP-15 through DCP-55, DCP/OS Version 9R1A

Base/Derived: Base

Connectivity: FTAM/ACSE/Presentation/Session/TP4/CLNP/802.2

(LLC)/802.3 (MAC)

Protocols and Profiles:

IS 8571 FTAM, IS 8650 ACSE, IS 8823 Presentation, IS

8327 FTAM Subset Embedded Session, T1 Simplet File Transfer

Date Registered: September 10, 1992

Type of Registration: Provisional, based on use of ATS-16, (FTAM

Subset) GOSIP version 1

Conformance Lab Used: UNISYS

Open System Interconnect Laboratory

2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Mevian France

Contact: Mr. Tom Hull

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUN NET OSI FTAM, Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN 4, SUN O/S 4.0.3, 4.1, 4.1.1, 4.1.2

Base/Derived: Base

Connectivity: TP4/CLNP/802.2/802.3

Underlying Stack: TP4/CLNP/802.2/802.3

Protocols and Profiles:

FTAM ISO 8571, T1 Profile, ACSE ISO 8649/8650,

Presentation ISO 8822/8823, Session ISO 8326/8327

Date Registered: October 14, 1992

Type of Registration: Provisional, based or

Provisional, based on use of ATS-16, GOSIP

Version 1

Conformance Lab Used: National Computing Centre Ltd.,

NVLAP # 0357

Oxford Road

Manchester M1 7ED UK

Supplier: SUN Microsystems, Inc.

International Centre for Network Computing

32 Rue du Vieux Chene F-38240 Meylan France

Contact: Mr. Tom Hull

Tel +33 76 41 42 18

Fax +33 76 41 42 41

GOSIP Product Name, Release and Date:

SUN NET OSI, Version 7.1, October 1, 1992

Hardware and Operating System Platform(s):

SUN 4, SUN O/S 4.0.3, 4.1, 4.1.1, 4.1.2

Base/Derived: Derived

Connectivity: FTAM/ACSE/Presentation/SESSION

Underlying Stack: SunNet X.25

Protocols and Profiles:

FTAM ISO 8571, T1 Profile

Date Registered: November 25, 1992

Type of Registration: Provisional, based on use of ATS-16, GOSIP

Version 1

Conformance Lab Used: National Computing Centre Ltd.,

NVLAP # 0357 Oxford Road

Manchester M1 7ED UK

Supplier: UNISYS Corporation

2450 Swedesford Road

Paoli, PA 19301

Contact: Mr. Keith Fretz

Tel (703) 556-5665

Fax (703) 556-5172

GOSIP Product Name, Release and Date:

OSI-FTAM, Release 2R1A, 3 May 1992

Hardware and Operating System Platform(s):

1100/90 and all 2000 Series Systems, O/S 1100, Release

43R1

Base/Derived: Derived

Connectivity: FTAM/ACSE/Presentation/Session/CLNP/TP4/X.25

Underlying Stack: CLNP/TP4/X.25

Protocols and Profiles:

IS 8571 FTAM, T1 Simple File Transfer, Gosip Version 1,

IS 8650 ACSE, IS 8823 Presentation, IS 8327 FTAM Subset

Embedded Session

Date Registered: October 16, 1992

Type of Registration: Provisional, based on use of ATS-16, (FTAM

Subset) GOSIP Version 1

Conformance Lab Used: UNISYS Corporation, NVLAP #0367

Open System Interconnect Laboratory 2450 Swedesford Road P.O. Box 203

Paoli, PA 19301

GOSIP REGISTERS, Continued

Supplier: Data General Corporation

4400 Computer Drive P.O. Box MS D 134 Westborough, MA 01580

Contact: Mr. Charles Stakus

Tel (508) 870-6392 Fax (508) 898-4694

GOSIP Product Name, Release and Date:

FTAM for AViiON Systems, Version 3.10, August 1, 1992

Hardware and Operating System Platform(s):

AViiON 5000/6000 Series, O/S DG/UX for AViiON Systems,

Version 5.4.1

Base/Derived: Base

Connectivity: FTAM/ACSE/Presentation/Session

Underlying Stack: TP4/CLNP/802.2/802.3

Protocols and Profiles:

FTAM 8571, T1 Profile

Date Registered: November 13, 1992

Type of Registration: Pro

Provisional, based on use of ATS-16, GOSIP

Version 1

Conformance Lab Used: Data General OSI Conformance Test Center

4400 Computer Drive

MS D 216

Westborough, MA 01580

5.4.4 REGISTER OF GOSIP INTEROPERABILITY TEST SUITES

Test Suites for the GOSIP Interoperability Testing provisions are listed here. Entries on this register are Provisional, valid until February 14, 1992.

ITS-1 X.400
OSINET^{one}, Message Handling Systems Interoperability Tests,
Version 1, Edition 2, September 1990, available from: OSINET
Corporation, 1750 Old Meadow Road Suite 400, McLean, VA 22102,
Tel. (703) 883-2797

ITS-2 FTAM OSINET^{one}, File Transfer, Access and Management Interoperability Tests, Version 1, Edition 2, June 1990, available from: OSINET Corporation, 1750 Old Meadow Road Suite 400, McLean, VA 22102, Tel. (703) 883-2797

5.4.5 REGISTER OF GOSIP INTEROPERABILITY TEST AND REGISTRATION SERVICES

Interoperability Test and Registration Services which meet the GOSIP Interoperability Testing provisions are listed here. Entries on this register are Provisional, valid until October 1992.

ITRS-1 OSINET, c/o Corporation for Open Systems international, 1750 Old Meadow Road, McLean, VA 22102.

ITRS-2 SPAG, , PSI Operator, SPAGsa, Avenue Louise 165, Box 6, B-1050 Brusseis, Belgium, Telu. 32 2 645 7811, Fax. 32 2 645 0879

6. NIST POSIX CONFORMANCE TESTING

6.1 FIPS POSIX Standard

The National Institute of Standards and Technology through its Computer Systems Laboratory (NIST/CSL), has established a Conformance Testing policy for the Federal Information Standard for POSIX (FIPS 151-1). This standard is based on the IEEE POSIX Std 1003.1-1988. The testing model is made up of a Certification Authority, Accredited Testing Laboratories, Clients, and the official NIST POSIX Conformance Test Suite (NIST-PCTS). The Certification Authority is under the auspices of the Director of NIST/CSL. Testing labs are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), also an arm of NIST. The test suite is the NIST-PCTS:151-1 developed at NIST/CSL, and is based on the test assertions specified by the IEEE 1003.3 working group on test methods.

6.2 POSIX Test Procedures

There are eight POSIX test labs accredited by NVLAP to do POSIX testing. NVLAP accreditation is renewable after one year, and identifies the specific testing procedures which the lab is authorized to run. The labs provide testing and analysis services to their Clients, and may forward the final test results to NIST/CSL for evaluation and subsequent issuance of a Certificate of Validation by NIST/CSL. The POSIX Conformance testing procedures/requirements are published in the following documents:

- a. "NIST POSIX Testing Policy General Information" Version 4.0, January 22, 1992.
- b. "NIST POSIX Testing Policy Certificate of Validation Requirements, #1 FIPS 151-1."

This register is available on an electronic mail (email) file server system. For most email systems, send an email message (mail posix@nist.gov). The first line of the message should contain a command to send register. After issuing a send command and a carriage return, end the email message. This register will be returned via email to your email address.

6.3 POSIX Test Suite

The NIST-PCTS is available from the National Technical Information Services (NTIS), 5825 Port Royal Road, Springfield, VA 22161, (703) 487-4650, for \$2500 in the U.S. It will be the base PCTS for the life of FIPS 151-1. Occasional fixes to the PCTS will be made by NIST/CSL. These "fixes" are automatically sent to the accredited labs, and will be available from NIST/CSL to all owners of the NIST/PCTS:151-1.

6.4 Validation Requirements

An accredited lab may submit a "clean" test report to NIST/CSL for evaluation in anticipation of a Certificate of Validation being issued. "Clean" implies no test assertion failures. However, recognizing that errors could exist in either the FIPS 151-1, the test assertions in IEEE 1003.3, or in the NIST-PCTS, any "failures" must be resolved to acceptable "Resolved Test Codes" as listed in the NIST test method documentation. The Certificate of Validation will confirm that the stated product has been tested using the official NIST-PCTS and that the test results have been validated by NIST/CSL. It will contain information on the product tested, the hardware/software environment used for testing, supplier, testing lab, and the PCTS. Additional information on conditional features supported, configuration details, and resolved test codes will be available from NIST/CSL as referenced by a file number on the Certificate. These certificates will be issued by NIST/CSL through the testing lab. Fees for services by the testing labs will be established by the respective labs.

6.5 NIST POSIX TESTING LABORATORIES

The National Voluntary Laboratory Accreditation Program (NVLAP) has accredited the following laboratories to test computer operating system interfaces for conformance with the Federal Information Processing Standard 151-1 (FIPS 151-1) using the NIST POSIX Conformance Test Suite (NIST-PCTS:151-1). Only accredited laboratories may submit test reports to NIST/CSL for validation.

Applications Software Incorporated

1656 Gryc Court

Mendota Heights, MN 55118

Contact: Mr. Robin Ehrlich

Phone: 612-456-5364

BULL SA / Laboratoire POSIX

1 rue de Provence / BP208

38432 ECHIROLLES CEDEX (France)

Contact: Mr. Georges Chardon

Phone: (33) 76 39 75 93

DataFocus Incorporated

12500 Fair Lakes Circle, Suite 400

Fairfax, VA 22033-3831

Contact: Mr. James Hegerty

Phone: 703-631-6770

Hewlett-Packard Company

Contact: Ms. Linda DeYoung Hewlett-Packard POSIX Conformance Test Center Phone: 508-256-6600

250 Apollo Drive

Chelmsford, MA 01824

Mindcraft, Inc. Contact: Mr. Bruce Weiner

410 Cambridge Avenue Phone: 415-323-9000

Palo Alto, CA 94306

National Computing Centre Ltd

Oxford Road

Manchester, M1 7ED, ENGLAND

Contact: Ms. A. E. J. Pink

Phone: +44 61 228-6333

PERENNIAL

4699 Old Ironsides Drive, Suite 210

Santa Clara, CA 95054

Contact: Mr. Barry E. Hedquist

Phone: 408-748-2900

UniSoft Corporation

6121 Hollis Street

Emeryville, CA 94608-2092

Contact: Ms. Barb Moran Phone: 510-420-6400

6.6 NIST POSIX VALIDATED PRODUCTS

The following products have been tested by an Accredited POSIX Testing Laboratory (APTL) using the official National Institute of Standards and Technology POSIX Conformance Test Suite (NIST-PCTS:151-1) for the Federal Information Processing Standards Publication 151-1 (FIPS PUB 151-1). A Certificate of Validation has been issued by NIST/CSL.

Additional information is available from NIST/CSL on conditional features supported, configuration details, and resolved test codes (if appropriate).

PRODUCT SUPPLIERS

Apple Computer Inc.

AT&T

Control Data Corporation CONVEX Computer Corporation Data General Corporation

Digital Equipment Corporation Encore Computer Corporation ESIX/Everex Systems, Inc.

Harris Corporation

Hewlett-Packard Company

Interactive Systems Corp. Intergraph Corporation

International Business Machines Inc.

Modular Computer Systems, Inc. NCR Corporation

Pyramid Technology Corporation Santa Cruz Operation Inc.

Sequent Computer Systems Inc.

Silicon Graphics, Inc. Sun Microsystems Computer Corp.,Inc.

SunSoft, Inc. **Unisys Corporation**

UNIX System Laboratories

REFERENCE FILE #

APP2482, APP3355, APP7224, APP7235, APP8616, APP9125, APP9165

ATT1566

CDC1101, CDC5574, CDC5750 CON0202, CON2551, CON6027

DGC2542, DGC4767, DGC8016, DGC8703, DGC9391, DGC9574 DEC0638, DEC5794, DEC7386, DEC7917, DEC9418, DEC9672

ENC6897

EVR0901, EVR9749

HAR5240

HPC0115, HPC0303, HPC0535, HPC1581, HPC1992, HPC2540, HPC2698, HPC2952, HPC3760,

HPC4246, HPC6391, HPC6637, HPC7051, HPC7716, HPC8098, HPC9185

INT5154 INT4675

IBM0320, IBM0458, IBM1344, IBM2592, IBM3697

MOD4817

NCR0554, NCR2047, NCR2805, NCR3331, NCR4518 PYR1271, PYR3067, PYR3233, PYR4970, PYR9863

SCO3664, SCO3832, SCO4102, SCO5199, SCO6748, SCO8054, SCO9875

SEC8754

SGI5507, SGI9297

SUN2031, SUN3402, SUN5782, SUN5970, SUN7188, SUN7793

SUN0617, SUN2241, SUN3129, SUN3403, SUN5382, SUN6635, SUN9763

UNI0505, UNI1798, UNI3690, UNI5711, UNI9063, UNI9080

USL2115, USL3610

SYSTEM SUPPLIERS REFERENCE FILE #

EVR0901 SUN3403

Apple Computer Inc. APP2482, APP3355, APP7224, APP7235, APP8616, APP9125, APP9165

> SCO4102, USL2115 ATT1566, USL3610

INT5154

CDC1101, CDC5574, CDC5750 CON0202, CON2551, CON6027

DGC2542, DGC4767, DGC8016, DGC8703, DGC9391, DGC9574, SCO6748

SCO3664, SCO8054

DEC0638, DEC5794, DEC7386, DEC7917, DEC9418, DEC9672

ENC6897 EVR9749 HAR5240

HPC0115, HPC0303, HPC0535, HPC1581, HPC1992, HPC2540, HPC2698, HPC2952, HPC3760,

HPC4246, HPC6391, HPC6637, HPC7051, HPC7716, HPC8098, HPC9185

IBM0320, IBM0458, IBM1344, IBM2592, IBM3697

MOD4817

NCR0554, NCR2047, NCR2805, NCR3331, NCR4518 PYR1271, PYR3067, PYR3233, PYR4970, PYR9863

SUN3402 SEC8754

SGI5507, SGI9297

SUN0617, SUN2031, SUN2241, SUN3129, SUN5382, SUN5782,

SUN5970, SUN6635, SUN7188, SUN7793, SUN9763

UNI0505, UNI1798, UNI3690, UNI5711, UNI9063, UNI9080, SCO9875

SCO3832, SCO5199

AGI Computer, Inc. Alpha Systems Lab

AST Research, Inc. AT&T

Compaq Computer Corporation Control Data Corporation

CONVEX Computer Corporation Data General Corporation

Diamond Flower Incorporated

Digital Equipment Corporation Encore Computer Corporation ESIX/Everex Systems, Inc.

Harris Corporation Hewlett-Packard Company

Intergraph Corporation International Business Machines Inc.

Modular Computer Systems, Inc. NCR Corporation

Pyramid Technology Corporation

Sequent Computer Systems Inc.

Silicon Graphics, Inc.

Sun Microsystems Computer Corp., Inc.

Unisys Corporation Zenith Data Systems

Reference File #: APP2482

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Iffx

C Compller: A/UX native C compiler (cc) Version: 1.21 Release:

01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: APP3355

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 700

C Compiler: A/UX native C compiler (cc) Version: 1.23 Release:

February 9, 1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 04/16/92 .

Reference File #: APP7224

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 950

C Compller: A/UX native C compller (cc) Version: 1.23 Release:

February 9, 1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/14/92

Reference File #: APP7235

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Ilci

C Compller: A/UX native C compller (cc) Version: 1.21 Release:

01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: APP8616

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Ilsi

C Compiler: A/UX native C compiler (cc) Version: 1.21 Release:

01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: APP9125

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 700

C Compiler: A/UX Developer's Tools (c89) Version: 1.1 Release:

April 1, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 08/11/92

Reference File #: APP9165

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 950

C Compller: A/UX Developer's Tools (c89) Version: 1.1 Release:

April 1, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 08/11/92

Reference File #: ATT1566

Product Supplier: AT&T

Product Tested: AT&T UNIX System V Version: Release 4

Release: 4.0.3 System Supplier: AT&T

System Hardware: AT&T 3B2 R3 Series Model: 3B2/600 GR

C Compiler: AT&T 3B2/RISC C Development System Version: 1.0

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 11/06/91

Reference File #: CDC1101

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.4.2 Release: November

27, 1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4680MP

C Compiler: EP/IX C Language RISCompiler Version: C 2.11

Release: July 1990

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0356 Applications Software Incorporated

Date Issued:

01/29/92

Reference File #: CDC5574

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.3.1 Release: 03/21/1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4330-250

C Compiler: EP/IX C Language RISCompiler Version: 2.11

Release: July 1990

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0356 Applications Software Incorporated

Date Issued:

05/24/91

Reference File #: CDC5750

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.3.1 Release: 03/21/1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4680 C Compller: EP/IX C Language RISCompiler Version: 2.11

Release: 07/16/1990

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0356 Applications Software Incorporated

Date Issued: 05/24/91

Reference File #: CON0202

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C200

Series

System Supplier: CONVEX Computer Corporation

System Hardware: C2 Model: C220 C Compiler: CONVEX C Version: 4.3.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated DataFocus

Date Issued: 05/11/92

Reference File #: CON2551

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C3800

Series

System Supplier: CONVEX Computer Corporation System Hardware: C38 Model: C3810 C Compller: CONVEX C Version: 4.3.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CON6027

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C3400

Series

System Supplier: CONVEX Computer Corporation System Hardware: C34 Model: C3440 C Compiler: CONVEX C Version: 4.3.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: DEC0638

Product Supplier: Digital Equipment Corporation

Product Tested: VMS Version: 5 Release: 5 (with VMS

POSIX, version 1.0)

System Supplier: Digital Equipment Corporation
System Hardware: VAXstation Model: 3100 M76

C Compiler: VAX C Version: 3 Release: 2 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 01/29/92

Reference File #: DEC5794

Product Supplier: Digital Equipment Corporation

Product Tested: ULTRIX Version: 4.2 Release: May 31, 1991

System Supplier: Digital Equipment Corporation System Hardware: VAXstation II Model: GPX

C Compiler: pcc Version: 4.2 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 06/17/91

Reference File #: DEC7386

Product Supplier: Digital Equipment Corporation

Product Tested: The ULTRIX Operating System Version: 4.3

Release: August 1992

System Supplier: Digital Equipment Corporation
System Hardware: DECstation Model: 5000/200

C Compiler: Mips C Compiler Version: 2.10 PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 09/18/92

Reference File #: DEC7917

Product Supplier: Digital Equipment Corporation

Product Tested: the ULTRIX Operating System Version: 4.2A

Release: November 18, 1991

System Supplier: Digital Equipment Corporation
System Hardware: DECstation Model: 3100

C Compiler: MIPS C Compiler Version: 2.10

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/06/91

Reference File #: DEC9418

Product Supplier: Digital Equipment Corporation

Product Tested: ULTRIX Version: 4.2 Release: May 31, 1991

System Supplier: Digital Equipment Corporation System Hardware: DECstation Model: 3100 C Compiler: MIPS C Compiler Version: 2.10

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 06/17/91

Reference File #: DEC9672

Product Supplier: Digital Equipment Corporation

Product Tested: The ULTRIX Operating System Version: 4.2A

Release: December 1991

System Supplier: Digital Equipment Corporation System Hardware: DECstation Model: 5000/200

C Compiler: MIPS C Compiler Version: 2.10 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 02/12/92

Reference File #: DGC2542

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 5.4 System Supplier: Data General Corporation

System Hardware: AViion 5000 Model: AV/5240

C Compiler: GNU C Compller for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC4767

Product Supplier: Data General Corporation

Product Tested: DG/UX Version: 5.4.2 Release: August

1992

System Supplier: Data General Corporation

System Hardware: AViion AV/530/4600 Model: AV/532 C Compiler: GNU C Compiler for AVIION Systems Version: DG-

2.2.3 Release: August 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 09/09/92

Reference File #: DGC8016

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 5.4

System Supplier: Data General Corporation

System Hardware: AViion 400/4000 Model: AV/4100

C Compiler: GNU C Compiler for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC8703

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 5.4 System Supplier: Data General Corporation

System Hardware: AViion 400/4000 Model: AV/412 C Compller: GNU C Compller for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC9391

Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 4.32
System Supplier: Data General Corporation

System Hardware: AViion AV/400/4000 Model: AV/410 C Compller: GNU C Compller for AViion Sys Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: DGC9574

Product Supplier: Data General Corporation

Product Tested: DG/UX Version: 5.4.2 Release: August

1992

System Supplier: Data General Corporation

System Hardware: AViion AV/8000 Model: AV/6240 C Compller: GNU C Compller for AViiON Systems Version: DG-

2.2.3 Release: August 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 11/03/92

Reference File #: ENC6897

Product Supplier: Encore Computer Corporation
Product Tested: UMAX V Release: 3.0.6
System Supplier: Encore Computer Corporation
System Hardware: 91 Series Model: 91-02427
C Complier: Green Hills Software, Inc. C Release: 1.1

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0345 UnlSoft Corporation Date Issued: 3/12/92

Reference File #: EVR0901

Product Supplier: ESIX/Everex Systems, Inc.

Product Tested: ESIX System V Release 4 Version: 4

Release: 4.0

System Supplier: AGI Computer, Inc.
System Hardware: AGI Model: 486/33

C Compiler: ESIX ANSI C Compiler Version: 5.0

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus incorporated Date issued: 05/28/92

Reference File #: EVR9749

Product Supplier: ESIX/Everex Systems, Inc.

Product Tested: ESIX System V Release 4 Version: 4

Release: 4.0

System Supplier: ESIX/Everex Systems, Inc.

System Hardware: Everex Model: 3000S 386/33 C Compiler: ESIX ANSI C Compiler Version: 5.0

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: HAR5240

Product Supplier: Harris Corporation

Product Tested: CX/UX Release: 5.3

System Supplier: Harrls Corporation, Computer Systems Division System Hardware: Night Hawk Model: HN4802

C Compller: Harris C Compller Release: 5.3

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/16/91

Reference File #: HPC0115

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 867S

C Compiler: HP C Compller Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC0303

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 867s

C Compiler: HP C Compiler Version: A 08.17 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 09/09/92

Reference File #: HPC0535

Product Supplier: Hewlett-Packard Company

Product Tested: Domain/OS Version: 10.4 Release: April

1992

System Supplier: Hewlett-Packard Company

System Hardware: Domain Series 4000 Model: DN4500 C Compiler: Domain/C Version: 6.9.M/MPX Release: May 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 09/2/92

Reference File #: HPC1581

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 827S

C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC1992

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.08 Release: 11/23/92

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 827S

C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC2540

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.07 Release: December

1991

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 700 Model: 720

C Compiler: HP C Compiler Version: A 08.71 Release: December

1991

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 01/29/92

Reference File #: HPC2698

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 817S

C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC2952

Product Supplier: Hewlett-Packard Company

Product Tested: Domain/OS Version: 10.4 Release: April

1992

System Supplier: Hewlett-Packard Company

System Hardware: Domain Series 400 Model: 433s

C Compller: Domain/C Version: 6.9.M/MPX Release: May 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 09/2/92

Reference File #: HPC3760

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 847S

C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC4246

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.08 Release: 11/23/92

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 807S

C Compller: HP C Compller Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC6391

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.00 with PHCO 0800

(Patch)

Release: January 1991, January 1992 (Patch)

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 400 Model: 400S

C Compiler: HP C Compiler Version: B 08.00 Release: December

1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 04/17/92

Reference File #: HPC6637

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.08 Release: 11/23/92

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 817S

C Compller: HP C Compller Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC7051

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.08 Release: 11/23/92

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 867S

C Compller: HP C Compller Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC7716

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.08 Release: 11/23/92

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 847S

C Compiler: HP C Compller Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC8098

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.02 Release: 10/06/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 807S

C Compiler: HP C Compiler Version: A 08.71 Release: 10/06/91

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 12/08/92

Reference File #: HPC9185

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8 Release: 5/6/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 835 C Compiler: HP C Compller Version: A 08.17 Release: 5/6/91

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center

Date Issued: 12/18/91

Reference File #: IBM0320

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000

Version: 3 Release: 2

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 220

C Compller: xlc Version: 1 Release: 2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: IBM0458

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000

Version: 3 Release: 2

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 530H

C Compller: xlc Version: 1 Release: 2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: IBM1344

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version: 3 Release: 1

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 320

C Compller: xlc Version: 3 Release: 1 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: IBM2592

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version: 3 Release: 1

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 530

C Compller: xlc Version: 3 Release: 1 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: IBM3697

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000

Version: 3 Release: 2

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 320

C Compiler: xlc Version: 1 Release: 2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: INT4675

Product Supplier: Intergraph Corporation

Product Tested: CLIX Version: 06.02.01 Release: 3.1

System Supplier: Intergraph Corporation

System Hardware: Intergraph 6400 Series Workstation Model:

6450

C Compiler: CLIPPER Advanced Optimizing C Compiler Version:

06.00.01.43 Release: 28-JAN-1992 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: INT5154

Product Supplier: Interactive Systems Corp.

Product Tested: Interactive UNIX Operating System Version:

3.0 Release: 3.2

System Supplier: Compaq Computer Corporation System Hardware: Compaq Model: System Pro

C Compller: Interactive UNIX Software Development System

Version: 3.0

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0345 UnlSoft Corporation Date Issued: 10/16/91

Reference File #: MOD4817

Product Supplier: Modular Computer Systems, Inc.
Product Tested: REAL/IX Version: V.3 Release: D.0

System Supplier: Modular Computer Systems, Inc. System Hardware: REAL/STAR Model: 1000

C Compiler: GNU C Compiler for REAL/IX Systems Version: 1.37

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/05/92

Reference File #: NCR0554

Product Supplier: NCR Corporation

Product Tested: NCR UNIX System V Version: Release 4

Release: 4.0.4

System Supplier: NCR Corporation

System Hardware: NCR 3B2 R3 Series Model: 3B2/1000 R3

(Military ID: 3B2/600 GR)

C Compiler: 3B2/RISC C Development System Release: 1.1

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus, Inc. Date Issued: 12/09/92

Reference File #: NCR2047

Product Supplier: NCR Corporation

Product Tested: NCR System V Release 4 MP-RAS, Rel 2

Version: SVR4 Release: 2 System Supplier: NCR Corporation

System Hardware: System 3000 Model: 3447 C Compller: NCR C Development Toolkit Release; 2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus, Inc. Date Issued: 06/26/92

Reference File #: NCR2805

Product Supplier: NCR Corporation

Product Tested: NCR System V Release 4 MP-RAS, Rel 2

Version: SVR4 Release: 2 System Supplier: NCR Corporation

System Hardware: System 3000 Model: 3450 C Compller: NCR C Development Toolkit Release: 2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus, Inc. Date Issued: 06/26/92

Reference File #: NCR3331

Product Supplier: NCR Corporation

Product Tested: NCR System V Release 4 MP-RAS, Rel 2

Version: SVR4 Release: 2 System Supplier: NCR Corporation

System Hardware: System 3000 Model: 3345 C Compiler: NCR C Development Toolkit Release: 2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus, Inc. Date Issued: 06/26/92

Reference File #: NCR4518

Product Supplier: NCR Corporation

Product Tested: NCR System V Release 4 MP-RAS, Rel 2

Version: SVR4 Release: 2 System Supplier: NCR Corporation

System Hardware: System 3000 Model: 3550 C Compiler: NCR C Development Toolkit Release: 2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus, Inc.

Date Issued: 06/26/92

Reference File #: PYR1271

Product Supplier: Pyramid Technology Corporation

Product Tested: OSx Version: 5.1a-92a023 Release: 0422s

System Supplier: Pyramid Technology Corporation System Hardware: MIServer Model: MIS-2T

C Compiler: att_cc Version: 5.1 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: PYR3067

Product Supplier: Pyramid Technology Corporation

Product Tested: DataCenter/OSx Version: dcosx Release:

1.1-92c027

System Supplier: Pyramid Technology Corporation

System Hardware: MIServer Model: 2S

C Compiler: DataCenter/OSx C Compiler Release: 1.1-92c027

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus incorporated Date Issued: 09/09/92

Reference File #: PYR3233

Product Supplier: Pyramid Technology Corporation

Product Tested: DataCenter/OSx Version: dcosx Release:

1.1-92c027

System Supplier: Pyramid Technology Corporation System Hardware: MIServer Model: 12S

System Hardware: MIServer Model: 12S C Compiler: DataCenter/OSx C Compiler Release: 1.1-92c027

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated Date Issued: 10/05/92

Reference File #: PYR4970

Product Supplier: Pyramid Technology Corporation

Product Tested: DataCenter/OSx Version: dcosx Release:

1.1-920027

System Supplier: Pyramld Technology Corporation

System Hardware: MIServer Model: 4S

C Compiler: DataCenter/OSx C Compiler Release: 1.1-92c027

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated Date Issued: 09/09/92

Reference File #: PYR9863

Product Supplier: Pyramid Technology Corporation
Product Tested: OSx Version: 5.1a Release: 0318t

System Supplier: Pyramid Technology Corporation System Hardware: MIServer Model: MIS-4T

C Compiler: att_cc Version: 5.1 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: SCO3664

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO Open Desktop Version: 2.0

System Supplier: Diamond Fiower Incorporated System Hardware: DFI Model: 486SX/25

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated Date Issued: 11/02/92

Reference File #: SCO3832

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: Release

3.2

System Supplier: Zenith Data Systems

System Hardware: Z Station Model: 433DEh

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated Date Issued: 09/28/92

Reference File #: SCO4102

Product Supplier: Santa Cruz Operation, Inc.

Product Tested: SCO UNIX System V/386 Version: Release

System Supplier: AST Research, Inc.

System Hardware: Premium Series Model: 486/33

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus, Inc. Date Issued: 07/01/92

Reference File #: SCO5199

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2

System Supplier: Zenith Data Systems

System Hardware: Zenith Data Systems Supersport Laptop

Model: Supersport SX

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0343 DataFocus Incorporated Date Issued: 09/17/91

Reference File #: SCO6748

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2

Release: 2

System Supplier: Data General Corporation

System Hardware: Walkabout/SX Model: G2763 C Compiler: Microsoft C Optimizing Compiler Version: 5.1

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: SCO8054

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO Open Desktop Version: 2.0

System Supplier: Diamond Flower Incorporated System Hardware: DFI Model: 486/33

C Compiler: Microsoft C Version: 5.1

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated Date Issued: 11/02/92

Reference File #: SCO9875

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2

System Supplier: UNISYS Corporation

System Hardware: PW² Advantage 3000 Series Model: 3256

C Compiler: Microsoft C Version: 5.1

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 11/01/91

Reference File #: SEC8754

Product Supplier: Sequent Computer Systems Inc.

Product Tested: DYNIX/ptx Operating System Version: 1.3.0 Reference File #: <u>SUN3402</u>

System Supplier: Sequent Computer Systems Inc.

System Hardware: Symmetry Series II Model: S27

C Compiler: C Tools Version: 1.12p

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0345 UniSoft Corporation Date Issued: 12/09/91

Reference File #: SGI5507

Product Supplier: Silicon Graphics, Inc. Product Tested: IRIX Version: 4.0.5

System Supplier: Sillcon Graphics, Inc.

System Hardware: IRIS Model: Crimson C Compiler: IRIS Development Option Version: 2.20

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 06/15/92

Reference File #: SGI9297

Product Supplier: Silicon Graphics, Inc. Product Tested: IRIX Version: 4.0.5 System Supplier: Silicon Graphics, Inc.

System Hardware: IRIS Model: Indigo

C Compiler: IRIS Development Option Version: 2.20

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 06/15/92

Reference File #: SUN0617

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC

System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCstation IPC Model: GX

C Compiler: Solaris C Compiler Version: 1.0.1 Release:

December 4, 1991

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus Incorporated

Date Issued: 08/27/92

Reference File #: SUN2031

Product Supplier: Sun Microsystems Computer Corporation, Inc. Product Tested: Solaris Version: 2.1 Release: August 4,

System Supplier: Sun Microsystems Computer Corporation, Inc.

System Hardware: SunWorkstation 4/30 Model: 4/30

C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN2241

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 2.0 Release: June 1992

System Supplier: Sun Microsystems Computer Corporation, Inc.

System Hardware: SPARCstation 2 Model: 4/75 C Compiler: Sun C Compiler Version: 2.0 Release: 20 May 1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 07/02/92

Reference File #: SUN3129

Product Supplier: SunSoft, Inc.

Product Tested: Interactive Unix Operating System V/386

Version: 3.0.1 Release: 3.2

System Supplier: Compaq Computer Corporation System Hardware: Desk Pro Model: 386/20E

C Compiler: Interactive Unix Software Development System

Version: 3.0 Release: December 4, 1991 PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0345 UniSoft Corporation Date Issued: 9/18/92

Product Supplier: Sun Microsystems Computer Corporation, Inc. Product Tested: Solaris Version: 2.1 Release: August 4,

System Supplier: RDI

System Hardware: BriteLite Model: IPX Color Laptop

Workstation

C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 10/16/92

Reference File #: \$UN3403

Product Supplier: SunSoft, Inc.

Product Tested: Interactive Unix Operating System V/386

Version: 3.0.1 Release: 3.2 System Supplier: Alpha Systems Lab

System Hardware: ASL486/33 Model: ASL433 C Compiler: Interactive Unix Software Development System

Version: 3.0

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0345 UniSoft Corporation Date Issued: 10/05/92

Reference File #: SUN5382

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC System Supplier: Sun Microsystems Computer Corporation, Inc.

System Hardware: SPARCstation IPX Model: GX C Compiler: Solaris C Compiler Version: 1.0.1 Release:

December 4, 1991

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus incorporated

Date Issued: 09/2/92

Reference File #: SUN5782

Product Supplier: Sun Microsystems Computer Corporation, Inc.
Product Tested: Solarls Version: 2.1 Release: August 4,

System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCserver 10 Model: 30

C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN5970

Product Supplier: Sun Microsystems Computer Corporation, Inc. Product Tested: Solaris Version: 2.1 Release: August 4, 1992

System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCserver 10 Model: 41

C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: \$UN6635

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCserver 690 Model: 140

C Compiler: Solaris C Compiler Version: 1.0.1 Release:

December 4, 1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/19/92

Reference File #: SUN7188

Product Supplier: Sun Microsystems Computer Corporation, Inc. Product Tested: Solaris Version: 1.1 Release: August 24, 1992

System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCstation 10 Model: GX-30

C Compiler: Solaris C Compiler Version: 1.1 Release: August 24,

1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 08/27/92

Reference File #: SUN7793

Product Supplier: Sun Microsystems Computer Corporation, Inc. Product Tested: Solaris Version: 2.1 Release: August 4,

System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCserver 10 Model: 42

C Compiler: Sun C Compiler Version: 2.0 Release: June 30, 1992

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 10/08/92

Reference File #: SUN9763

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC
System Supplier: Sun Microsystems Computer Corporation, Inc.

System Hardware: SPARCstation 2 Model: GX C Compiler: Solaris C Compiler Version: 1.0.1 Release:

December 4, 1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/19/92

Reference File #: UNI0505

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision

1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/15 C Compiler: UNIX System V Release 4 Standard C Development

Environment Version: 1.0.2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 04/30/92

Reference File #: UNI1798

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision

1.0.2

System Supplier: Unlsys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/65 C Compiler: UNIX System V Release 4 Standard C Development

Environment Version: 1.0.2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI3690

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: 1.1

Release: October 30, 1992 System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U6000/65 C Compiler: UNIX System V Release 4 Standard C Development

Environment Version: 1.1

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0342 Mindcraft, Inc. Date Issued: 09/28/92

Reference File #: UNI5711

Product Supplier: Unlsys Corporation

Product Tested: UNIX System V Release 4 Version: Revision 1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/60 C Compiler: UNIX System V Release 4 Standard C Development

Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI9063

Product Supplier: Unlsys Corporation

Product Tested: UNIX System V Release 4 Version: Revision

1.0.2

System Supplier: Unlays Corporation

System Hardware: Unlsys U 6000 Series Model: U 6000/35 C Compiler: UNIX System V Release 4 Standard C Development

Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI9080

Product Supplier: Unisys Corporation

Product Tested: CTOS II Version: 3 Release: 3

System Supplier: Unisys Corporation

System Hardware: Unisys B-Series Model: NGEN

C Compiler: Microsoft C Version: 6.0 PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0343 DataFocus Incorporated Date Issued:

09/17/91

Reference File #: USL2115

Product Supplier: UNIX System Laboratories, Inc.

Product Tested: UNIX System V Release 4

Version: 4 Release: 4.0

System Supplier: AST Research, Inc.

System Hardware: Premium Series Model: 486/33

C Compiler: Standard C Development Environment

Version: 5.0

PCTS: 151-1 Version: 1.1 - 05/21/92

APTL: 0343 DataFocus, Inc. Date Issued: 07/01/92

Reference File #: USL3610

Product Supplier: UNIX System Laboratories, Inc.

Product Tested: UNIX System V Release 4 for

the Intel386 Architecture Version: 4

Release: July 1991

System Supplier: AT&T

System Hardware: AT&T 6386/25 WGS Model:

CPU 311 PC3B

C Compiler: Standard C Development Environment

Version: Issue 5

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/12/91

For further information on the NIST/CSL POSIX validation program contact Martha M. Gray, Computer Systems Laboratory, B266 Technology Bldg., NIST, Gaithersburg, MD 20899. Telephone: 301-975-3276, fax: 301-590-0932, e-mail: gray@swe.ncsl.nist.gov.

This register is also available on an electronic mail (email) file server system. To use the service, you must be able to send and receive email via the Internet. For most email systems, send an email message (mail posix@nist.gov). The first line of the message should contain a command to send register. After you issue the send command and a carriage return, the next line should simply have a period and a carriage return, signalling the end of your email message. This register will be returned via email to your email address.



7. COMPUTER SECURITY TESTING

7.1 Cryptographic Standards

The lists in Sections 7.6, 7.7 and 7.8 provide technical information about products that have been validated as conforming to the following computer security FIPS:

- a. Data Encryption Standard (DES), FIPS PUB 46-1,
- b. Message Authentication Code (MAC), FIPS PUB 113, and
- c. Key Management Using ANSI X9.17, FIPS PUB 171.

7.2 Data Encryption Standard Validation Tests

FIPS PUB 46-1 specifies a cryptographic algorithm that converts plaintext to ciphertext using a 56-bit key. Testing procedures for the validation of devices as conforming to FIPS PUB 46-1 are described in the NBS Special Publication 500-20, <u>Validating the Correctness of Hardware Implementations of the NBS Data Encryption Standard</u>. The validation of a device is performed by running the Monte Carlo test described in the publication. The Monte-Carlo test consists of eight million encryptions and four million decryptions, with two encryptions and one decryption making up a single test. The test is designed to use the Electronic Codebook Mode (ECB) of DES. Although the actual test described in NBS Special Publication 500-20 is the same test used to validate devices today, the procedures for administering the test have changed. Currently, the test is performed by the vendor using initial values supplied by NIST. The vendor uses the supplied information to run the Monte-Carlo test and sends the results to NIST.

7.3 Message Authentication Code (MAC) Validation System

FIPS PUB 113 specifies a Data Encryption Algorithm which may be used to detect unauthorized intentional and accidental modifications to data. This process is known as data authentication. The algorithm is based on DES and is used to authenticate an entire binary message. FIPS PUB 113 is compatible with ANSI X9.9 which provides methods for authenticating an entire binary message as well as all or parts of a message which are in a coded character format. Procedures for the validation of products which implement FIPS PUB 113 and ANSI X9.9 are described in NBS Special Publication 500-156, Message Authentication Code (MAC) Validation System: Requirements and Procedures.

7.4 Key Management Validation System (KMVS)

FIPS PUB 171 adopts ANSI X9.17 for Federal Government use. ANSI X9.17, <u>Financial Institution Key Management (Wholesale)</u>, provides procedures and protocols for the secure generation, distribution, storage, entry, use and destruction of symmetric cryptographic keying material (e.g., DES). It provides key management solutions for a variety of operational environments, and as such, ANSI X9.17 contains a number of options. FIPS PUB 171 specifies a particular set of options whenever keying material is distributed using the protocols of ANSI X9.17. Procedures for the validation of products which conform to a subset of the options selected in FIPS PUB 171 are described in the <u>Key Management Validation System</u>: <u>Point-to-Point Validation System</u> document which is available from the Manager of the Security Group (see Section 8.5).

7.5 General

7.5.1 Request for Validation.

To validate a product, a vendor should send a formal request for validation which includes a clear indication of the product to be tested. The request must also include the name, address, and telephone number of the person within the vendor's organization who will be responsible for the validation testing. The request should be sent to:

Manager, Security Technology Group Computer Security Division National Computer Systems Laboratory Building 225, Room A216 National Institute of Standards and Technology Gaithersburg, MD 20899 Telephone (301) 975-2920

7.5.2 Information about Validated Products.

It should be noted that the purpose of the following lists (see Sections 7.6, 7.7 and 7.8) is to provide technical information about products that have been validated as conforming to the FIPS Standards listed in Section 7.1. NIST has made every attempt to provide complete and accurate information about the products described in the following lists. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

7.5.3 Validation Documentation.

Copies of the above FIPS and Special Publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. The KMVS validation requirements document discussed in Section 7.4 can be obtained by contacting the Manager of the Security Technology Group at the above address.

7.6 DES Validated Devices

NOTE: The purpose of this document is to provide technical information about devices that have been validated as conforming to Federal Information Processing Standard Publication 46-1, Data Encryption Standard. The National Institute of Standards and Technology (NIST) has made every attempt to provide complete and accurate information about the devices described in this document. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
ADT Security Systems 2560 Huntington Avenue Fourth Floor Alexandria, VA 22303 Hal Marriott (703) 960-8548	ADT Universal Communicator	10/17/90	Chip is an on board component for products in the High Security Intrusion Detection System. System has Integrated key management capabilities.
Advanced Micro Devices, Inc. 4115 Freiderich Lane Mail Stop 135 Austin, TX 78744 Patrick Sohelli (408) 749-2161	AmZ8068	1/28/81	One 40-pin DIP package; n-channel Si-gate technology; ECB, CBC and 8-bit CFB modes; separate ports for key Input, clear data and enciphered data; concurrent Input, output and ciphering activities; external DMA control; interfaces with AmZ8000 CPU bus directly, and with the 2900, 8080, 8085 and 8048 families with minimum throughput greater than 1 Mbytes per second; greater than 1 Mbytes per second.
	AM 9568	2/28/84	N-channel silicon gate LSI product containing the circuitry necessary to encrypt and decrypt data; can be used in terminals dedicated controllers, communication concentrators, and peripheral task processors in general processor systems; can be used in CF, ECB, or CBC operating modes; separate ports for key input, clear data, and enciphered data enhanced security; interface directly to the IAPX86, 88 bus; interfaces with 2900 and 8051 families with minimal external logic.
American Teiephone and Telegraph Company (AT&T) 6612 E. 75th Street P.O. Box 1008 Indianapolis, IN 46206 Ken Zempol (908) 658-6870	AT&T Smart Card Version 2.11/DES	5/3/91	Card is part of a smart card based Computer Security System (CSS). The card is carried by an authorized user and permits the user to gain access to host computer systems that are protected by the CSS.
	AT&T Smart Card Version 3.0/DES (5E1)	7/19/91	This version of the AT&T Smart Card is designed to closely follow developments in the international standards arena in areas of card communication protocols, commands and file structures. It is a general purpose smart card that supports multiple applications and uses the DES as a basic part of its operating system.
Arkansas Systems inc. 8901 Kanis Road Little Rock, AR 72205-6498 David H. Bishop (501) 227-8471	DES-MATE	7/6/89	Provides data encryption for messages sent and received on-line between and ATM/EFT Network switch processor and an IBM host participant in that network. DES key management is automatic and under system control.
AT&T Whippany Road Whippany, N.J. 07981 William Oeschger (201) 898-1198	AT&T T7000A Digital Encryption Processor	4/22/86	Manufactured using CMOS technology; 40-pin DIP; encryption modes include ECB, CBC, CFB, and OFB; throughput 1.882 Mbytes/second on-chip RAM and ROM program memory.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
AT&T Bell Laboratories 25 Lindsiey Drive Room 2B-309 Morristown, N.J. 07960 William Oeschger (201) 898-1198	DEP229ER (WE229ER)	9/6/83	3.5 micron NMOS technology; 40-pin DIP; encryption modes - ECB, CBC, OFB, CFB1, CFB8, CFB64; Throughput rate of 117K ciphering operation/second.
American Telephone and Telegraph Company AT&T Gullford Center I-85 and Mt Hope Church Road Mcleansville, NC 27420 Mr. B. F. Bailey (919) 279-3779	AT&T Mark E DES Key Generator, PN ON493049-1X	6/3/92	Not available
American Telephone and Telegraph Company AT&T Guilford Center I-85 and Mt Hope Church Road Mcleansville, NC 27420 Mr. M. Zugay (919) 279-3779	AT&T Mark ET DES Key Generator, Part No. AN10014-1	6/3/92	Not available
Collins Telecommunications Collins Defense Communications 350 Collins Road, NE Mail Stop 120-105 Cedar Rapids, lowa 52498	765-5914-001	10/15/77	pMOS chip with 40 usec algorithm execution time; chip has approximately a 50 nsec state change; can perform I/O functions while the chip is in operation; part of network stand-alone encryptor.
Jim Perkins (319) 395-5773	Voice Privacy Device VP430	10/6/81	Imbedded encryption device for commercial hand held communications devices.
Computer Elektronik Infosys of America, Inc. 512-A Herndon Parkway Hemdon, VA 22070 A. Mark Brown (703) 435-3800	SuperCrypt	7/24/91	Chip designed for high speed (12 Megabytes/sec data rates) encryption and decryption. ECB, CBC, CFB and OFB modes of DES supported as well as MAC generation. Available as a 120 Pin Flat Pack.
Datakey Inc. 407 West Travelers Trail Burnsville, MN 55337-9990 Michael Carenzo (612) 890-6850	H8-310 ASACS Smart Card	7/2/ 9 2 -	The ASACS hardware consists of a credit-card sized smar card with an embedded Hitachl H8/310 microprocessor and a reader/writer Interface which provides an RS-232 serial connection to a host computer. The smart card functions are implemented in firmware which is stored in the memory of the card's microprocessor.
The Exchange 15395 SE 30th Place Bellevue, WA 98007 Patricia Lenti-Crane (206)644-7000	EXCRYPT DEB-64-KM (originally EXCLUDE DEB-64-KM)	1/26/89	Encrypts and decrypts data; generates random keys; supports up to six security processor boards that can be run in parallel to enhance throughput; has storage capacity for up to 4000 DES keys; developed for secure financial transactions.
Front Line Software P.O. Box 217 Lowell, MA 01853 William Graham (617) 452-3352	726-8064 PROM Device	12/1/86	4 K EPROM to be used with Intel IPAX family of microprocessors including all models of the IBM PC family; all modes of DES supported.
GEMPLUS CARD INTERNATIONAL 6290 Montrose Road Rockville, MD 20852 Gilles LisImaque (301) 770-1558	MCOS16K EEPROM/DES	3/18/91	A multi-application smart card which complies with the ISO standard 7816 (parts 1, 2, and 3) for Integrated Circuit cards with contacts.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
General Electric Company Mountain View Road Lynchburg, VA 24502 Jim Elder (804) 948-6187	Part Number 19B801375	6/28/85	The GE DES IC is a microprocessor controlled, low speed asynchronous CMOS IC using DES. Intended to provide secure voice in commercial grade mobile radio applications.
Glencoe Engineering, Inc. 270 LexIngton Drive Buffalo Grove, IL 60089-6930 D. Wade Clark (708) 808-0300	Glen-DES PN GL306051	5/8/92	The Glen-DES is a compact 20 pin design, using low power CMOS technology, operating at 3us using a 16 MHz clock. The DES chip features nonvolatile internal memory, an external key and a combined key. It is available with a simple CPU interface and it supports a DOS printer port implementation.
IBM Corporation Federal Systems Division WK4/988 P.O. Box 100 Kingston, NY 12401 Robert Elander (914) 385-6692	4402182 3	11/1/77	This card used in terminal equipment; the chip uses technology with PLA control to implement CBC;
	P/N 8270094 using DES Chip P/N 5898057 (originally 8269206)	8/25/78	This card is used in 3845 and 3846 equipment for 8-bit CFB.
	Two TTL cards - 8632242 and 8679176	9/21/79	Will operate at least at the 1.5 Mbytes 360 channel rate; card set is used in the 3848 cryptographic unit; uses "Emerald-5" technology.
IBM Corporation 1001 W.T. Harris Blvd. West Charlotte, NC 28257 William Rohland (704) 594-8250	4745 Security Interface Unit and the Personal Security Car	10/10/90 rd	Devices are used in a transaction security system to protect the privacy and Integrity of data using a common cryptographic Interface. The security Interface unit communicates with the Personal Security Card and the cryptographic adaptor, if present. The Personal Security Card is an Integrated-circuit chip card that contains a single chip security processor.
Intel 1900 Praire City Road Folsom, CA 95630	8294	1/3/78	Algorithm Is microcode which is burned into a 1 Kbyte ROM on a 5 voit, 40-pin chip driven by a 8042 microprocessor.
Joe Dragony (916) 351-5250	8294A	6/20/82	Same as the 8294 except for a maximum data transfer rate of 400 bytes per second.
John E. Holt & Associates 2714 Key Boulevard Arlington, VA 22201 John Hoit (703) 524-2923	Krypton Firmware	2/12/86	ROM chips for the standard IBM PC family include eight 3722 chips, four 2764 chips and one 27256 chip; 1024-bit CBC chaining; encryption speed dependent on clock of PC; ROM can plug directly into ROM slot.
Lexicon ICOT Corporation 3801 Zanker Road P.O. Box 5143 San Jose, CA 95150-5143 Bob Lynch (408) 433-3300	LEX-POS (Model 600)	11/28/84	A Personal Identification Number (PIN) entry device; used In conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible, Lexicon sold LEX-POS to ICOT Corporation.
LSI Logic/Dataco AS Smedeholm 12-14 DK-2730 Heriev Denmark Jens Kjelsbak 45 44 53 01 00	Dataco L5A4043 2030025402	1/12/90	Custom DES IC was manufacturer by LSI Logic for Dataco. The DES chip is designed for optional use in ScaNet local area network products.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
Matsushita Electronic Components High Frequency Products Division One Pansonic Way Secaucus, NJ 07094 Dursun Sakarya (201) 348-7767		3/13/91	Card is designed to be a high security external storage media housing an 8 bit CPU and 64 Kbit EEPROM.
Micro Card Technologies, Inc. 14070 Proton Road Dallas, TX 75244 Jeff Lang (214) 788-4055	Micro Card TB100 Integrated Circuit Card	9/19/90	A multi-application Integrated circuit card which can simultaneously support several application data files. Ciphering and deciphering functions may be used to encrypt or decrypt external messages using DES.
Morse Security Group, Inc. 12960 Bradley Avenue Sylmar, CA 91342-0128 Nalin Chheda (800) 423-5669 (818) 367-5951	TRAP 5200 System	4/17/90	Touch response alarm processor system, including a receiver processor located in a data gathering center and a series of transponders located at remote locations, contains DES to produce encrypted data that flows along a communication path.
Motorola Microprocessor Products Division 6501 William Cannon Drive West Austin, TX 78735-8598 Don Ponder (512) 440-2956	MC6859 (originally MGD68NE)	2/11/80	Si-gate depletion mode, nMOS 24-pin DIP using single 5 voit power supply; implements ECB and CFB.
Newbridge Microsystems 603 March Road Kanata, Ontario Canada K2K 2M5 Tony Rosati (613) 592-0714	CA20C03A	4/10/91	A high performance WD20C03A compatible DES Data encryption processor with data transfer rates up to 4 Mbytes per second. Supports ECB and CBC; PLCC and PDIP packaging available.
Newnet S.A. Alsina 430 Buenos Alres 1087 Argentina Daniel Ramos 54 1 334 9732	Data Security Device (DSD 9612)	7/2/91	This device is based on an eight bit INTEL microprocessor with 8 Kbytes of EPROM. Transfer data at speeds of 1200 to 9600 bps and communicates with other devices via EIA RS-232-C ports.
Nixdorf Computer Corporation 168 Middlesex Tumplke Buriington, MA 01803 Kevin Madden (617) 890-3600	VEM Module	1/7/80	The plug-in module is used with the Nixdorf 8864 CPU for encrypting data transmission blocks and file protection; may be used in terminal applications in the financial community; uses TTL.
Racal-Milgo P.O. Box 407044 Pt. Lauderdale, FL 33340-7044 Richard Abbruscato (305) 476-6800	Datacryptor	1/7/80	Stand alone equipment with public key management remote distribution of master keys.
Rothenbuhler Engineering P.O. Box 708 2191 Rhodes Road Sedro Wolley, WA 98284-0708 Andrew Benson (206) 856-0836	CLS Series 5200 Encryption Module	3/19/91	The CLS Series 5200 Encryption Module is used in a system which communicates 8 channels of electronic security information between a client and a central monitoring facility.
Secur-Data Systems, Inc. Omega Center 7340 Executive Way, Suite R Frederick, MD 21701	DESPLEX	2/2/89	Used In a CF configuration as part of a firmware operating system for processing and transmission of alarm sensor data as well as receiving and annuciating dat at an alarm monitoring facility.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
Ronald Baum (301) 698-9955			
Texas Instruments, Inc. P.O. Box 1443, M/S 736 Houston, TX 77001 Mike Polen (713) 274-3635	TMS 99541	2/28/82	Preprogrammed TMS7020 8-bit single chip microprocessor; 40-pin DIP plastic package I/O pins are TTL compatible; master and active key registers;
UNIVAC P.O. Box 3942 St. Paul, MN 55165 Jim Nelson (612) 631-6728	End-End/Mass Storage Encryptor	1/29/80	Prototype device for testing purposes only;
VLSI Technology, Inc. 8375 S. River Parkway Tempe, AZ 85284 R. Slusarczyk (602) 752-8574	VM007 - Data Encryption Processor	1/6/92	The VM007 Data Encryption Processor Is a programmable integrated circuit that provides a complete cryptographic system on a single chlp. It contains a hardware Implementation of the DES, RISC-based sequencer, data storage registers, and ROM-based microprogram. It is designed to provide very high data and key processing rates (up to 190 Megabits per second), flexible I/O inter-facing, advanced security features and supports all DES modes of operation.
Wells Fargo Security Products A Unit of Baker Protective Services 1010 North Glebe Road, Suite 680 Arlington, VA 22201 William Martin (703) 247-4250		5/26/89	The monitor panels are intended for use In a monitoring station of a proprietary Intrusion detection alarm system.
Western Digital Corporation 2445 McCabe Way Irvine, CA 92714 Product Marketing Manager for Security Devices (714) 474-2033 X7853	WD-2001/WD2002	8/9/79	Uses si-gate nMOS, TTL compatible; ECB speeds of up to 40 Kbytes/second, 161 Kbytes/second and 242 Kbytes/second.
, ,	WD20C03 DES Device	2/19/87	Uses si-gate CMOS, TTL compatible; ECB and CBC, speeds of up to 403 Kbytes/second, 645 Kbytes/second and 807 Kbytes/second in ECB.

7.7 Message Authentication Code (MAC) Implementations

	Vendor/Contact	Implementation	Validated Options		Vendor/Contact	Implementation	Validated Options
1.	Systems Inc. 480 Spring Park Place Suite 900 Herndon, VA 22070	Personal Computer Security Module, PCSM-T May 18, 1988	BINARY OPTION (FIPS 113)	9.	Digitech Telecommuni- cations, Inc. 342 Madison Avenue Suite 2010 New York, NY 10017	Softnet Software, Version 1 June 29, 1987	BINARY OPTION (FIPS 113)
2.	Don Cole, (703) 471-0892 Federal Reserve Bank of Cleveland	Jones Futurex PC Encryption	BINARY OPTION (FIPS 113) CODED CHARACTERS,	10.	James J. McKeeff, (212) 557-7230 Sylek, Inc.	MACbox	BINARY OPTION (FIPS 113)
	P.O.B. 6367 Cleveland, Ohio 44101	Board FRS PC MAC Processor	ENTIRE MESSAGE; NO EDITING CODED CHARACTERS:	"	Rights transferred to AeT Research, Inc. on	June 30, 1987	CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
	Deve Rich, (216) 579-2221	October 28, 1988	ENTIRE MESSAGE; ED- ITING		January 29, 1988 - see entry 17		CODED CHARACTERS; ENTIRE MESSAGE; EDITING
3.	Shannon Systems, Inc. Mountain View, CA	Remote Crypto Facility Software Version 3.0	BINARY OPTION (FIPS 113)		AeT Research 675 North First Street Suite 800		CODED CHARACTERS; EXTRACTED MES- SAGE ELEMENTS;
	Out of Business	January 18, 1987			San Jose, CA 95112		NO EDITING CODED CHARACTERS;
4.	Codercard, inc. Rights transferred to	Personal Computer Security Adaptor, CPS-300 Argus, Version 1 Software	BINARY OPTION (FIPS 113) CODED CHARACTERS, ENTIRE MESSAGE,		Linden Feldman, (408) 275-0820		EXTRACTED MES- SAGE ELEMENTS; EDITING
	LITRONICS Information Systems on Sept. 12, 1990 - see entry 23. LITRONICS Information	February 26, 1987	NO EDITING CODED CHARACTERS, ENTIRE MESSAGE, EDITING CODED CHARACTERS.	11.	Inter-Quest, Inc. 16508 East Laser Drive Fountain Hills, AZ 85268	PORT-OF-ENTRY Computer Security System Vers 1.2 (Software)	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDTING
	Systems 2950 Redhill Avenue Costa Mesa, CA 92628		EXTRACTED MESSAGE ELEMENTS, NO EDIT-		Charles Redding, (602) 948-2580	August 17, 1987	CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS;
	Bob Gray, (714) 557-3444		CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, EDITING				EXTRACTED MES- SAGE ELEMENTS; NO EDITING CODED CHARACTERS;
5.	Jones Futurex, Inc. 10933 Trade Center Drive Rancho Cordova, CA	MAC-310 Message Authenti- cator	BINARY OPTION (FIPS 113)				EXTRACTED MES- SAGE ELEMENTS; EDITING
	95670	February 27, 1987		12.	Racal-Guardata Limit-	PC Security Module, RGL 600 RGL 600 Host PC C Driver	BINARY OPTION (FIPS 113)
	Don Thompson, (916) 635-3972				Richmond Court 309 Fleet Road Fleet, Hampshire GU13	Software, Version: V1.01 November 20, 1987	
6.	Informax Securities 6974 Sandpiper Place Carlsbad, CA 92009	Protecom Crypto Processor Protecom Device Driver & Utilities, Version 0.5	BINARY OPTION (FIPS 113)		aBU England Paul Halliden.		
	Devid Howard, (819) 931-8787	March 27, 1987			(252) 622144, England		
7.	Inter-Quest, Inc. 16508 E. Laser Drive Fountain Hills, AZ 85268	PORT-OF-ENTRY Computer Security System Vers. 1.1 (Software)	BINARY OPTION (FIPS 113)	13.	The Chase Manhattan Bank, N.A. 1 Seaport Plaza 11th Floor	C-FIMAS 18 Software, Version 1.0 December 8, 1987	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS;
	Charles Redding, (802) 948-2580	May 8, 1987			New York, New York 10038		ENTIRE MESSAGE; EDITING
8.	Infornax Securities 6974 Sandpiper Place Carlsbad, CA 92009	Protecom Crypto Processor Protecom Device Driver & Utilities, Version 0.8	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING		Bob Martian, (212) 797-4038		CODED CHARACTERS; EXTRACTED MES- SAGE ELEMENTS; NO EDITING
	Devid Howard, (619) 931-8787	May 11, 1987	CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS;				CODED CHARACTERS; EXTRACTED MES- SAGE ELEMENTS; EDITING
			EXTRACTED MESSAGE ELEMENTS; NO EDIT- ING	14.	Atalia Corporation 2304 Zanker Road San Jose, CA 95131	Personal Computer Module, CPCM CPCM.HEX Software, Version	BINARY OPTION (FIPS 113)
			ING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING		Dale Hopkins, (408) 435-8850	OA 13-2043-01 January 11, 1988	

Message Authentication Code (MAC) Implementations, Continued

	Vendor/Contact	Implementation	Validated Options		Vendor/Contact	Implementation	Validated Options
16.	GN Telematic, Inc. 46 Manning Road Billerica, MA 01821 Poul Hebegaard, (617) 667-8644	safeMatic 2000, KB76-175 27 Coded Character Set Process- ing Software, Model KB77-17012, Version A February 3, 1988	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDIT- ING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING	22.	Racal-Guardeta, Inc 480 Spring Park Place Suite 900 Herndon, VA 22070 Brian Buchotz, (703) 471-0892	X9 Crypto Server June 1, 1980	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS; N EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS;
17.	AeT Research 675 North First Street Suite 800 San Jose, CA 95112 Originally validated on June 30, 1987 as a Sytek, inc. device - see entry 10. Linden Feldman, (408) 275-0820	MACbox August 8, 1988	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDIT- ING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING	23.	LITRONIC Information Systems 2950 Redhill Avenue Costa Mesa, CA 92626 ` Rights transferred on September 12, 1990 Bob Gray, (714) 545-8649 James Prohaska, (703) 990-8068	Personal Computer Security Adapter Argua, Version 1 Software** Originally validated by Codercard, Inc. on February 28, 1987 - see entry 4.	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS;
9.	Atalla Corporation 2304 Zanter Road San Jose, CA 95131 Dale Hopkins, (408) 435-8850 Cypher Communica-	Personal Computer Module, MN-40-249 CPCM.HEX Software, Version OE 13-2043-00 September 28, 1988 CYCOM SCI AX3	BINARY OPTION (FIPS 113) BINARY OPTION (FIPS 113)	24.	IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 28257 Roger Evans, (704)	4755 Cryptographic Adapter October 15, 1990	EDITING BINARY OPTION (FIPS 113)
	tions Technology, Inc. 4520 East-West High- way Suite 550 Bethesda, MD 20814 Angel Balley, (301) 652-6780	5.01, Version 10084002 February 2, 1989		25.	594-7060 IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 28257 Roger Evans, (704) 594-7060	4754 Security Interface Unit October 15, 1990	BINARY OPTION (FIPS 113)
.	Dial-Guard 55 Koch Road/PO Box 7045 Corte Madera, CA 94925 Shun-Hwa Chang or Trone Miller, (415) 927-2232	Dial-Guard Remote Authenti- cator 01-103, Version 2.0 Rev. 0 March 6, 1989	BINARY OPTION (FIPS 113)	28.	IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 26257 Roger Evans, (704) 594-7060 Cypher Communica-	IBM Personal Security Card October 15, 1990 CYCOM SCI/SL 96 AX5	BINARY OPTION (FIPS 113) BINARY OPTION (FIPS 113)
	Oldok Data 3945 St. Martin Laval, Quebec, Canada H7T 1B7 Claude Vigeant, (514) 881-1881	RAC/M FAS-PACK, Version 1.0 April 24, 1989	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDIT- ING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDIT- ING	28.	tions Technology, Inc. 15200 Shady Grove Rd. Suite 350 Rockville, MD 20850 Angel Bailey, (301) 590-9314 Cypher Communications Technology, Inc. 15200 Shady Grove Rd. Suite 350 Rockville, MD 20850	5.03, Version 10084012 December 19, 1990 CYCOM SCI 192 AX7 5.05, Version 10084020 January 10, 1991	BINARY OPTION (FIPS 113)
			ELEMENTS; EDITING		Angel Balley, (301) 590-9314		

Message Authentication Code (MAC) Implementations, Continued

	Vendor/Contact	Implementation	Validated Options
29.	Digital Equipment Corporation Digital Drive - MK01-2/B06 Merrimack, NH 03054 Steve Lawrence,	PIN Pad 201 SMD Model: P003-120-XX March 25, 1991	BINARY OPTION (FIPS 113)
	(903) 884-3445		-
30.	Information Security Corporation 1141 Late Cook Road Suite D Deerfield, IL 80015	DES Module used in SpyProofi July 10, 1991	BINARY OPTION (FIPS 113)
	Michael Markowitz, (708) 405-0500		_
31.	Digital Signature Validated by Information Security Corporation 1115 N. East Avenue Oak Park, IL 60302 Michael Markowitz,	DES Module used in CryptMaster (3.20) and SecretAgent (1.00) July 15, 1991	BINARY OPTION (FIPS 113)
	(708) 405-0500		•
32.	The Exchange Systems 15395 SE 30th Place Bellevue, WA 98007- 6594 Robert Adamson, (206) 644-7000 X255	PCE-3000 (IBM PS/2 Microchannel) January 8, 1992	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING
33.	The Exchange Systems 15395 SE 3oth Place	PCE-1000 ISA Adaptor	BINARY OPTION (FIPS 113) CODED CHARACTERS,
	Bellevue, WA 98007- 6594	January 9, 1992	ENTIRE MESSAGE; NO EDITING CODED CHARACTERS;
	Robert Adamson, (208) 644-7000 X255		ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

7.8 Validations for Key Management

	1	7.8 validations for	Key Managen	T	T
Vendor/Contact	Implementation	Validated Options	Vendor/Contact	Implementation	Validated Options
1. LITRONICS Information Systems 2850 Redhill Avenue Costa Mesa, CA 92628 (Originally validated by Codercard; rights transferred on September 11, 1990) Bob Gray, (714) 545-8649 James Prohaska, (703) 980-8068	Hardware: Argus-PC, Model: CMS-100 Software: Argus/MACE Software, Version: 1.0 September 23, 1988	No. of communicating pairs: 2 No. of manual (*)K/s per comm. pair: 2 Length of manual and auto. (*)K/s: PAIR Key generation capability: YES Number of auto. distr. (*)K/s shared: UP TO 4 Number of KDs shared: UP TO 8 2 KDs in KSMs: SOMETIMES Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of leeys in KSMs: ALWAYS Send odd parity on leeys in KSMs: ALWAYS Send R's in KSMs: SOMETIMES Send encrypted fvs in KSMs: ALWAYS Send FDCs in RSis and ESMs: ALWAYS Action if EDC received in RSis and ESMs: NOT APPLICABLE Send EDKs in KSMs: SOMETIMES Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES Roce assumed: EITHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED	3. TECHNICAL COMMUNICATIONS CORPORATION 100 Domino Drive CONCORD, Massachusetts 01742 John Gill, (817) 862-8035	Hardware: CX5000 Software: Version: 2.0 May 15, 1991	No. of communicating pairs: 1 No. of manual (*)K/s per comm. pair: 2 Length of manual and auto. (*)K/s: PAIR Key generation capability: YES Number of auto. distr. (*)K/s shared: 4 Number of KDs shared: 1 2 KDs in KSMs: NEVER Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send FIVE in KSMs: SOMETIMES Send encrypted Ns in KSMs: ALWAYS Send EDCs in RSIs and ESMs: ALWAYS Action if EDC received in RSIs and ESMs: NOT APPLICABLE Send EDKs in KSMs: NEVER Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES Roce assumed: ETTHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED
2. TECHNICAL COMMUNICATIONS CORPORATION 100 Domino Drive CONCORD, Massachusetts 01742 John Gill, (617) 862-6035	Hardware: CX5000A Software: Version: 1.0 May 6, 1991	No. of communicating pairs: 1 No. of manual (*)K/s per comm. pair: 2 Length of manual and auto. (*)K/s: PAIR Key generation capability: YES Number of auto. distr. (*)K/s shared: 0 Number of KDs shared: 1 2 KDs in KSMs: NEVER Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of tays in KSMs: ALWAYS Send odd parity on lays in KSMs: ALWAYS Send IVs in KSMs: SOMETIMES Send encrypted IVs in KSMs: ALWAYS Action if EDC received in RSis and ESMs: NOT APPLICABILE Send EDKs in KSMs: NEVER Action on court error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES Role assumed: ETHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED	4. COMMUNICATION DEVICES, INC. 1 Forstmann Court Clifton, NJ 07011 Gene Hartsell, (201) 772-8997	Hardware: RSD/E Software: Version 7.2	No. of communicating pairs: 1 No. of manual (*)K/s per comm. pair: 1 Length of manual and auto. (*)K/s: PAIR Key generation capability: NO Number of auto. distr. (*)K/s shared: 0 Number of K/Ds shared: 1 2 K/Ds in KSMs: NEVER Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send live in KSMs: SOMETIMES Send encrypted I/s in KSMs: ALWAYS Action if EDC received in RSis and ESMs: NOT APPLICABLE Send EDKs in KSMs: NEVER Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES Role assumed: EITHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED Number of communicating pairs: 1 Number of manual (*)K/s per comm. pair: 2 Length of manual and



APPENDIX A

FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES

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APPENDIX A

FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES

The purpose of this appendix is to provide information about products and services that are available to Federal Agencies for assessing products for conformance to FIPS.

The entries in this list identify the topic, the standard tested, the NIST contact, and the product or service offered. The letters T, S, or C in the Product/Service column indicate a test method, testing service, or certificate/registered report respectively.

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
COBOL	FIPS PUB 21-3	Judy Kailey NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3259	T, S, C
Fortran	FIPS PUB 69-1	Judy Kailey NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3259	T, S, C
Pascal	FIPS PUB 109	Kathryn Miles NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3156	T, S, C
С	FIPS PUB 160	Kathryn Miles NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3156	T, S, C
Ada	FIPS PUB 119	William Dashiell NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-2490	T, S, C
MUMPS	FIPS PUB 125	William Dashiell NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-2490	T, S, C
SQL	FIPS PUB 127-1	Joan Sullivan NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3258	T, S, C

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
GKS	FIPS PUB 120	Susan (Quinn) Sherrick NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3268	T, S, C
CGM	FIPS PUB 128 MIL-D-28003	Lynne Rosenthal NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3353	T, S, C
PHIGS	FIPS PUB 153 ANSI/ISO 9592.1-1989	John Cugini NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3248	T, S, C
POSIX	FIPS PUB 151-1	Martha Gray NIST, Bldg. 225, Rm. B266 Gaithersburg, MD 20899 (301) 975-3276	T, S, C
Message Authentication	FIPS PUB 113	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Key Management Validation	FIPS PUB 171 ANSI X9.17	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Data Encryption Standard	FIPS PUB 46-1	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
GOSIP	FIPS PUB 146	Stephen Nightingale NIST, Bldg. 225, Rm 141 Gaithersburg, MD 20899 (301) 975-3616	T, S
1984 X25	CCITT X.25-1984 ISO 7776, ISO 8208 ISO 8882, ISO 9646 FIPS PUB 100-1	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T
ISDN Data Link Layer	Q921.LAPD ANSI T1.602	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
ISDN Physical Layer	S/T Interface ANSI T1.605 (S/T Interface) ANSI T1.601 (U Interface)		T (abstract)
ISDN Network Layer	Q931 ANSI T1.607 ANSI T1.608 FIPS PUB (planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	Т
FDDI	ANSI X3T9	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	Т





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